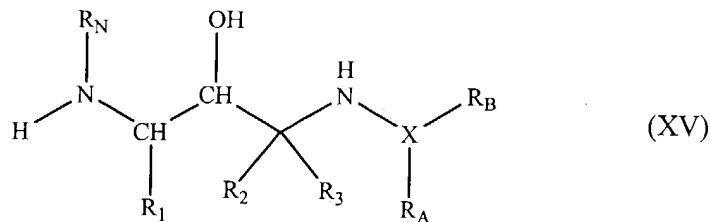


WE CLAIM:

## 1. A substituted amine of formula (XV)

5

where R<sub>1</sub> is:

(I) C<sub>1</sub>-C<sub>6</sub> alkyl, optionally substituted with one, two or three substituents selected from the group consisting of C<sub>1</sub>-C<sub>3</sub> alkyl, C<sub>1</sub>-C<sub>7</sub> alkyl (optionally substituted with C<sub>1</sub>-C<sub>3</sub> alkyl and C<sub>1</sub>-C<sub>3</sub> alkoxy), -F, -Cl, -Br, -I, -OH, -SH, -C≡N, -CF<sub>3</sub>, C<sub>1</sub>-C<sub>3</sub> alkoxy, -NR<sub>1-a</sub>R<sub>1-b</sub> where R<sub>1-a</sub> and R<sub>1-b</sub> are -H or C<sub>1</sub>-C<sub>6</sub> alkyl, and -OC=O NR<sub>1-a</sub>R<sub>1-b</sub> where R<sub>1-a</sub> and R<sub>1-b</sub> are as defined above,

(II) -CH<sub>2</sub>-S(O)<sub>0-2</sub>-(C<sub>1</sub>-C<sub>6</sub> alkyl),

(III) -CH<sub>2</sub>-CH<sub>2</sub>-S(O)<sub>0-2</sub>-(C<sub>1</sub>-C<sub>6</sub> alkyl),

15 (IV) C<sub>2</sub>-C<sub>6</sub> alkenyl with one or two double bonds, optionally substituted with one, two or three substituents selected from the group consisting of -F, -Cl, -OH, -SH, -C≡N, -CF<sub>3</sub>, C<sub>1</sub>-C<sub>3</sub> alkoxy, and -NR<sub>1-a</sub>R<sub>1-b</sub> where R<sub>1-a</sub> and R<sub>1-b</sub> are -H or C<sub>1</sub>-C<sub>6</sub> alkyl,

(V) C<sub>2</sub>-C<sub>6</sub> alkynyl with one or two triple bonds, optionally substituted with one, two or three substituents selected from the group consisting of -F, -Cl, -OH, -SH, -C≡N, -CF<sub>3</sub>, C<sub>1</sub>-C<sub>3</sub> alkoxy, and -NR<sub>1-a</sub>R<sub>1-b</sub> where R<sub>1-a</sub> and R<sub>1-b</sub> are -H or C<sub>1</sub>-C<sub>6</sub> alkyl,

20 (VI) -(CH<sub>2</sub>)<sub>n1</sub>-(R<sub>1-aryl</sub>) where n<sub>1</sub> is zero or one and where R<sub>1-aryl</sub> is phenyl, 1-naphthyl, 2-naphthyl and indanyl, indenyl, dihydronaphthalyl, or tetralinyl optionally substituted with one, two, three or four of the following substituents on the aryl ring:

(A) C<sub>1</sub>-C<sub>6</sub> alkyl optionally substituted with one, two or three substituents selected from the group consisting of C<sub>1</sub>-C<sub>3</sub> alkyl, -F, -Cl, -Br, -I, -OH, -SH, -C≡N, -CF<sub>3</sub>, and C<sub>1</sub>-C<sub>3</sub> alkoxy, and -NR<sub>1-a</sub>R<sub>1-b</sub> where R<sub>1-a</sub> and R<sub>1-b</sub> are as defined above,

25 (B) C<sub>2</sub>-C<sub>6</sub> alkenyl with one or two double bonds, optionally substituted with one, two or three substituents selected from the group consisting of -F, -Cl, -OH, -SH, -C≡N, -CF<sub>3</sub>, C<sub>1</sub>-C<sub>3</sub> alkoxy, and -NR<sub>1-a</sub>R<sub>1-b</sub> where R<sub>1-a</sub> and R<sub>1-b</sub> are -H or C<sub>1</sub>-C<sub>6</sub> alkyl,

30 (C) C<sub>6</sub> alkyl,

(C)  $C_2$ - $C_6$  alkynyl with one or two triple bonds, optionally substituted with one, two or three substituents selected from the group consisting of -F, -Cl, -OH, -SH, -C≡N, -CF<sub>3</sub>, C<sub>1</sub>-C<sub>3</sub> alkoxy, and -NR<sub>1-a</sub>R<sub>1-b</sub> where R<sub>1-a</sub> and R<sub>1-b</sub> are -H or C<sub>1</sub>-C<sub>6</sub> alkyl,

5 (D) -F, Cl, -Br or -I,  
(F) -C<sub>1</sub>-C<sub>6</sub> alkoxy optionally substituted with one, two or three of -F,  
(G) -NR<sub>N-2</sub>R<sub>N-3</sub> where R<sub>N-2</sub> and R<sub>N-3</sub> are as defined below,  
(H) -OH,  
10 (I) -C≡N,  
(J) C<sub>3</sub>-C<sub>7</sub> cycloalkyl, optionally substituted with one, two or three substituents selected from the group consisting of -F, -Cl, -OH, -SH, -C≡N, -CF<sub>3</sub>, C<sub>1</sub>-C<sub>3</sub> alkoxy, and -NR<sub>1-a</sub>R<sub>1-b</sub> where R<sub>1-a</sub> and R<sub>1-b</sub> are -H or C<sub>1</sub>-C<sub>6</sub> alkyl,  
(K) -CO-(C<sub>1</sub>-C<sub>4</sub> alkyl),  
15 (L) -SO<sub>2</sub>-NR<sub>1-a</sub>R<sub>1-b</sub> where R<sub>1-a</sub> and R<sub>1-b</sub> are as defined above,  
(M) -CO-NR<sub>1-a</sub>R<sub>1-b</sub> where R<sub>1-a</sub> and R<sub>1-b</sub> are as defined above, or  
(N) -SO<sub>2</sub>-(C<sub>1</sub>-C<sub>4</sub> alkyl),  
(VII) -(CH<sub>2</sub>)<sub>n1</sub>-(R<sub>1</sub>-heteroaryl) where n<sub>1</sub> is as defined above and where R<sub>1</sub>-heteroaryl is selected from the group consisting of:  
20 pyridinyl,  
pyrimidinyl,  
quinolinyl,  
benzothienyl,  
indolyl,  
indolinyl,  
25 pyridazinyl,  
pyrazinyl,  
isoquinolyl,  
quinazolinyl,  
30 quinoxalinyl,  
phthalazinyl,  
imidazolyl,  
isoxazolyl,

pyrazolyl,  
oxazolyl,  
thiazolyl,  
indolizinyl,  
5 indazolyl,  
benzothiazolyl,  
benzimidazolyl,  
benzofuranyl,  
furanyl,  
10 thienyl,  
pyrrolyl,  
oxadiazolyl,  
thiadiazolyl,  
triazolyl,  
15 tetrazolyl,  
oxazolopyridinyl,  
imidazopyridinyl,  
isothiazolyl,  
naphthyridinyl,  
20 cinnolinyl,  
carbazolyl,  
beta-carbolinyl,  
isochromanyl,  
chromanyl,  
25 tetrahydroisoquinolinyl,  
isoindolinyl,  
isobenzotetrahydrofuranyl,  
isobenzotetrahydrothienyl,  
isobenzothienyl,  
30 benzoxazolyl,  
pyridopyridinyl,  
benzotetrahydrofuranyl,  
benzotetrahydrothienyl,  
purinyl,

benzodioxolyl,  
triazinyl,  
phenoxazinyl,  
phenothiazinyl,  
5 pteridinyl,  
benzothiazolyl,  
imidazopyridinyl,  
imidazothiazolyl,  
dihydrobenzisoxazinyl,  
10 benzisoxazinyl,  
benzoxazinyl,  
dihydrobenzisothiazinyl,  
benzopyranyl,  
benzothiopyranyl,  
15 coumarinyl,  
isocoumarinyl,  
chromonyl,  
chromanonyl,  
pyridinyl-N-oxide,  
20 tetrahydroquinolinyl  
dihydroquinolinyl  
dihydroquinolinonyl  
dihydroisoquinolinonyl  
dihydrocoumarinyl  
25 dihydroisocoumarinyl  
isoindolinonyl  
benzodioxanyl  
benzoxazolinonyl  
pyrrolyl N-oxide,  
30 pyrimidinyl N-oxide,  
pyridazinyl N-oxide,  
pyrazinyl N-oxide,  
quinolinyl N-oxide,  
indolyl N-oxide,

indolinyl N-oxide,  
 isoquinolyl N-oxide,  
 quinazolinyl N-oxide,  
 quinoxaliny N-oxide,  
 5 phthalazinyl N-oxide,  
 imidazolyl N-oxide,  
 isoxazolyl N-oxide,  
 oxazolyl N-oxide,  
 thiazolyl N-oxide,  
 10 indolizinyl N-oxide,  
 indazolyl N-oxide,  
 benzothiazolyl N-oxide,  
 benzimidazolyl N-oxide,  
 pyrrolyl N-oxide,  
 15 oxadiazolyl N-oxide,  
 thiadiazolyl N-oxide,  
 triazolyl N-oxide,  
 tetrazolyl N-oxide,  
 benzothiopyranyl S-oxide, and  
 20 benzothiopyranyl S,S-dioxide,

where the  $R_{1\text{-heteraryl}}$  group is bonded to  $-(CH_2)_{n1}-$  by any ring atom of the parent  $R_{1\text{-heteraryl}}$  group substituted by hydrogen such that the new bond to the  $R_{1\text{-heteraryl}}$  group replaces the hydrogen atom and its bond, where heteroaryl is optionally substituted with one, two, three or four of:

25 (1)  $C_1\text{-}C_6$  alkyl optionally substituted with one, two or three substituents selected from the group consisting of  $C_1\text{-}C_3$  alkyl, -F, -Cl, -Br, -I, -OH, -SH, - $C\equiv N$ , - $CF_3$ ,  $C_1\text{-}C_3$  alkoxy, and - $NR_{1\text{-a}}R_{1\text{-b}}$  where  $R_{1\text{-a}}$  and  $R_{1\text{-b}}$  are as defined above,

(2)  $C_2\text{-}C_6$  alkenyl with one or two double bonds, optionally substituted with one, two or three substituents selected from the group consisting of -F, -Cl, -OH, -SH, - $C\equiv N$ , - $CF_3$ ,  $C_1\text{-}C_3$  alkoxy, and - $NR_{1\text{-a}}R_{1\text{-b}}$  where  $R_{1\text{-a}}$  and  $R_{1\text{-b}}$  are -H or  $C_1\text{-}C_6$  alkyl,

(3)  $C_2\text{-}C_6$  alkynyl with one or two triple bonds, optionally substituted with one, two or three substituents selected from the group consisting of -F, -

Cl, -OH, -SH, -C≡N, -CF<sub>3</sub>, C<sub>1</sub>-C<sub>3</sub> alkoxy, and -NR<sub>1-a</sub>R<sub>1-b</sub> where R<sub>1-a</sub> and R<sub>1-b</sub> are -H or C<sub>1</sub>-C<sub>6</sub> alkyl,

(4) -F, Cl, -Br or -I,

(6) -C<sub>1</sub>-C<sub>6</sub> alkoxy optionally substituted with one, two, or

5 three of -F,

(7) -NR<sub>N-2</sub>R<sub>N-3</sub> where R<sub>N-2</sub> and R<sub>N-3</sub> are as defined below,

(8) -OH,

(9) -C≡N,

(10) C<sub>3</sub>-C<sub>7</sub> cycloalkyl, optionally substituted with one, two

10 or three substituents selected from the group consisting of -F, -Cl, -OH, -SH, -C≡N, -CF<sub>3</sub>, C<sub>1</sub>-C<sub>3</sub> alkoxy, and -NR<sub>1-a</sub>R<sub>1-b</sub> where R<sub>1-a</sub> and R<sub>1-b</sub> are -H or C<sub>1</sub>-C<sub>6</sub> alkyl,

(11) -CO-(C<sub>1</sub>-C<sub>4</sub> alkyl),

(12) -SO<sub>2</sub>-NR<sub>1-a</sub>R<sub>1-b</sub> where R<sub>1-a</sub> and R<sub>1-b</sub> are as defined

above,

15 (13) -CO-NR<sub>1-a</sub>R<sub>1-b</sub> where R<sub>1-a</sub> and R<sub>1-b</sub> are as defined above, or

(14) -SO<sub>2</sub>-(C<sub>1</sub>-C<sub>4</sub> alkyl), with the proviso that when n<sub>1</sub> is zero R<sub>1-heteroaryl</sub> is not bonded to the carbon chain by nitrogen; or

(VIII) -(CH<sub>2</sub>)<sub>n1</sub>-(R<sub>1-heterocycle</sub>) where n<sub>1</sub> is as defined above and R<sub>1-heterocycle</sub>

20 is selected from the group consisting of:

morpholinyl,

thiomorpholinyl,

thiomorpholinyl S-oxide,

thiomorpholinyl S,S-dioxide,

piperazinyl,

homopiperazinyl,

pyrrolidinyl,

pyrrolinyl,

tetrahydropyranyl,

25 piperidinyl,

tetrahydrofuranyl,

tetrahydrothienyl,

homopiperidinyl,

30

homomorpholinyl,  
homothiomorpholinyl,  
homothiomorpholinyl S,S-dioxide,  
oxazolidinonyl,  
5 dihydropyrazolyl,  
dihydropyrrolyl,  
dihydropyrazinyl,  
dihydropyridinyl,  
dihydropyrimidinyl,  
10 dihydrofuryl,  
dihydropyranyl,  
tetrahydrothienyl S-oxide,  
tetrahydrothienyl S,S-dioxide, and  
homothiomorpholinyl S-oxide,  
15 where the  $R_{1\text{-heterocycle}}$  group is bonded by any atom of the parent  $R_1$ .  
 $R_{1\text{-heterocycle}}$  group substituted by hydrogen such that the new bond to the  $R_{1\text{-heterocycle}}$  group  
replaces the hydrogen atom and its bond, where heterocycle is optionally substituted with  
one, two, three or four:  
20 (1)  $C_1\text{-}C_6$  alkyl optionally substituted with one, two or three  
substituents selected from the group consisting of  $C_1\text{-}C_3$  alkyl, -F, -Cl, -Br, -I, -OH, -SH,  
-C≡N, -CF<sub>3</sub>,  $C_1\text{-}C_3$  alkoxy, and -NR<sub>1-a</sub>R<sub>1-b</sub> where R<sub>1-a</sub> and R<sub>1-b</sub> are as defined above,  
25 (2)  $C_2\text{-}C_6$  alkenyl with one or two double bonds, optionally  
substituted with one, two or three substituents selected from the group consisting of -F, -  
Cl, -OH, -SH, -C≡N, -CF<sub>3</sub>,  $C_1\text{-}C_3$  alkoxy, and -NR<sub>1-a</sub>R<sub>1-b</sub> where R<sub>1-a</sub> and R<sub>1-b</sub> are -H or  $C_1\text{-}$   
 $C_6$  alkyl,  
30 (3)  $C_2\text{-}C_6$  alkynyl with one or two triple bonds, optionally  
substituted with one, two or three substituents selected from the group consisting of -F, -  
Cl, -OH, -SH, -C≡N, -CF<sub>3</sub>,  $C_1\text{-}C_3$  alkoxy, and -NR<sub>1-a</sub>R<sub>1-b</sub> where R<sub>1-a</sub> and R<sub>1-b</sub> are -H or  $C_1\text{-}$   
 $C_6$  alkyl,  
35 (4) -F, Cl, -Br or -I,  
(5)  $C_1\text{-}C_6$  alkoxy,  
(6) - $C_1\text{-}C_6$  alkoxy optionally substituted with one, two, or  
three -F,

(7)  $-\text{NR}_{\text{N}-2}\text{R}_{\text{N}-3}$  where  $\text{R}_{\text{N}-2}$  and  $\text{R}_{\text{N}-3}$  are as defined below,  
(8)  $-\text{OH}$ ,  
(9)  $-\text{C}\equiv\text{N}$ ,  
(10)  $\text{C}_3\text{-C}_7$  cycloalkyl, optionally substituted with one, two  
5 or three substituents selected from the group consisting of  $-\text{F}$ ,  $-\text{Cl}$ ,  $-\text{OH}$ ,  $-\text{SH}$ ,  $-\text{C}\equiv\text{N}$ ,  $-\text{CF}_3$ ,  
 $\text{C}_1\text{-C}_3$  alkoxy, and  $-\text{NR}_{1\text{-a}}\text{R}_{1\text{-b}}$  where  $\text{R}_{1\text{-a}}$  and  $\text{R}_{1\text{-b}}$  are  $-\text{H}$  or  $\text{C}_1\text{-C}_6$  alkyl,  
(11)  $-\text{CO-(C}_1\text{-C}_4\text{ alkyl)}$ ,  
(12)  $-\text{SO}_2\text{-NR}_{1\text{-a}}\text{R}_{1\text{-b}}$  where  $\text{R}_{1\text{-a}}$  and  $\text{R}_{1\text{-b}}$  are as defined  
above,  
10 (13)  $-\text{CO-NR}_{1\text{-a}}\text{R}_{1\text{-b}}$  where  $\text{R}_{1\text{-a}}$  and  $\text{R}_{1\text{-b}}$  are as defined  
above,  
(14)  $-\text{SO}_2\text{-(C}_1\text{-C}_4\text{ alkyl)}$ , or  
(15)  $=\text{O}$ , with the proviso that when  $n_1$  is zero  $\text{R}_{1\text{-heterocycle}}$  is  
not bonded to the carbon chain by nitrogen;  
15 where  $\text{R}_2$  is:  
(I)  $-\text{H}$ ,  
(II)  $\text{C}_1\text{-C}_6$  alkyl, optionally substituted with one, two or three substituents  
selected from the group consisting of  $\text{C}_1\text{-C}_3$  alkyl,  $-\text{F}$ ,  $-\text{Cl}$ ,  $-\text{Br}$ ,  $-\text{I}$ ,  $-\text{OH}$ ,  
20  $-\text{SH}$ ,  $-\text{C}\equiv\text{N}$ ,  $-\text{CF}_3$ ,  $\text{C}_1\text{-C}_3$  alkoxy, and  $-\text{NR}_{1\text{-a}}\text{R}_{1\text{-b}}$  where  $\text{R}_{1\text{-a}}$  and  $\text{R}_{1\text{-b}}$  are as defined above,  
(III)  $-(\text{CH}_2)_{0\text{-}4}\text{-R}_{2\text{-1}}$  where  $\text{R}_{2\text{-1}}$  is  $\text{R}_{1\text{-aryl}}$  or  $\text{R}_{1\text{-heteroaryl}}$  where  $\text{R}_{1\text{-aryl}}$  and  $\text{R}_{1\text{-heteroaryl}}$   
25 are as defined above;  
(IV)  $\text{C}_2\text{-C}_6$  alkenyl with one or two double bonds, optionally substituted  
with one, two or three substituents selected from the group consisting of  $-\text{F}$ ,  $-\text{Cl}$ ,  $-\text{OH}$ ,  
 $-\text{SH}$ ,  $-\text{C}\equiv\text{N}$ ,  $-\text{CF}_3$ ,  $\text{C}_1\text{-C}_3$  alkoxy, and  $-\text{NR}_{1\text{-a}}\text{R}_{1\text{-b}}$  where  $\text{R}_{1\text{-a}}$  and  $\text{R}_{1\text{-b}}$  are  $-\text{H}$  or  $\text{C}_1\text{-C}_6$  alkyl,  
(V)  $\text{C}_2\text{-C}_6$  alkynyl with one or two triple bonds, optionally substituted with  
30 one, two or three substituents selected from the group consisting of  $-\text{F}$ ,  $-\text{Cl}$ ,  $-\text{OH}$ ,  $-\text{SH}$ ,  
 $-\text{C}\equiv\text{N}$ ,  $-\text{CF}_3$ ,  $\text{C}_1\text{-C}_3$  alkoxy, and  $-\text{NR}_{1\text{-a}}\text{R}_{1\text{-b}}$  where  $\text{R}_{1\text{-a}}$  and  $\text{R}_{1\text{-b}}$  are  $-\text{H}$  or  $\text{C}_1\text{-C}_6$  alkyl, or  
(VI)  $-(\text{CH}_2)_{0\text{-}4}\text{-C}_3\text{-C}_7$  cycloalkyl, optionally substituted with one, two or  
three substituents selected from the group consisting of  $-\text{F}$ ,  $-\text{Cl}$ ,  $-\text{OH}$ ,  $-\text{SH}$ ,  $-\text{C}\equiv\text{N}$ ,  $-\text{CF}_3$ ,  
35  $\text{C}_1\text{-C}_3$  alkoxy, and  $-\text{NR}_{1\text{-a}}\text{R}_{1\text{-b}}$  where  $\text{R}_{1\text{-a}}$  and  $\text{R}_{1\text{-b}}$  are  $-\text{H}$  or  $\text{C}_1\text{-C}_6$  alkyl;

where  $\text{R}_3$  is:

(I)-H,

(II)  $C_1$ - $C_6$  alkyl, optionally substituted with one, two or three substituents selected from the group consisting of  $C_1$ - $C_3$  alkyl, -F, -Cl, -Br, -I, -OH,

-SH, -C≡N, -CF<sub>3</sub>,  $C_1$ - $C_3$  alkoxy, and -NR<sub>1-a</sub>R<sub>1-b</sub> where R<sub>1-a</sub> and R<sub>1-b</sub> are as defined above,

5 (III) -(CH<sub>2</sub>)<sub>0-4</sub>-R<sub>2-1</sub> where R<sub>2-1</sub> is R<sub>1-aryl</sub> or R<sub>1-heteroaryl</sub> where R<sub>1-aryl</sub> and R<sub>1-heteroaryl</sub> are as defined above

(IV)  $C_2$ - $C_6$  alkenyl with one or two double bonds,

(V)  $C_2$ - $C_6$  alkynyl with one or two triple bonds; or

10 (VI) -(CH<sub>2</sub>)<sub>0-4</sub>- C<sub>3</sub>-C<sub>7</sub> cycloalkyl, optionally substituted with one, two or three substituents selected from the group consisting of -F, -Cl, -OH, -SH, -C≡N, -CF<sub>3</sub>,  $C_1$ - $C_3$  alkoxy, and -NR<sub>1-a</sub>R<sub>1-b</sub> where R<sub>1-a</sub> and R<sub>1-b</sub> are -H or  $C_1$ - $C_6$  alkyl,

and where R<sub>2</sub> and R<sub>3</sub> are taken together with the carbon to which they are attached to form a carbocycle of three, four, five, six, or seven carbon atoms, optionally where one carbon atom is replaced by a heteroatom selected from the group consisting of 15 -O-, -S-, -SO<sub>2</sub>-, and -NR<sub>N-2-</sub>, where R<sub>N-2</sub> is selected from the group consisting of:

(a) -H,

20 (b) -C<sub>1</sub>-C<sub>6</sub> alkyl optionally substituted with one substituent selected from the group consisting of:

(i) -OH, and

(ii) -NH<sub>2</sub>,

25 (c) -C<sub>1</sub>-C<sub>6</sub> alkyl optionally substituted with one, two, or three -F, -Cl, -Br, or -I,

(d) -C<sub>3</sub>-C<sub>7</sub> cycloalkyl,

(e) -(C<sub>1</sub>-C<sub>2</sub> alkyl)-(C<sub>3</sub>-C<sub>7</sub> cycloalkyl),

30 (f) -(C<sub>1</sub>-C<sub>6</sub> alkyl)-O-(C<sub>1</sub>-C<sub>3</sub> alkyl),

(g) -C<sub>2</sub>-C<sub>6</sub> alkenyl with one or two double bonds,

(h) -C<sub>2</sub>-C<sub>6</sub> alkynyl with one or two triple bonds,

(i) -C<sub>1</sub>-C<sub>6</sub> alkyl chain with one double bond and one triple bond,

35 (j) -R<sub>1-aryl</sub> where R<sub>1-aryl</sub> is as defined above, and

(k) -R<sub>1-heteroaryl</sub> where R<sub>1-heteroaryl</sub> is as defined above;

where R<sub>N</sub> is:

(I)  $R_{N-1}-X_N$  where  $X_N$  is selected from the group consisting of:

(A)  $-CO-$ ,

(B)  $-SO_2-$ ,

(C)  $-(CR'R'')_{1-6}$  where  $R'$  and  $R''$  are the same or different and are

5  $-H$  and  $C_1-C_4$  alkyl,

(D)  $-CO-(CR'R'')_{1-6}-X_{N-1}$  where  $X_{N-1}$  is selected from the group

consisting of  $-O-$ ,  $-S-$  and  $-NR'-$  and where  $R'$  and  $R''$  are as defined above, and

(E) a single bond;

where  $R_{N-1}$  is selected from the group consisting of:

10 (A)  $R_{N-aryl}$  where  $R_{N-aryl}$  is phenyl, 1-naphthyl, 2-naphthyl,

trinalinyl, indanyl, 6,7,8,9-tetrahydro-5H-benzo[a]cycloheptenyl, or dihydronaphthyl

optionally substituted with one, two or three of the following substituents which can be the same or different and are:

(1)  $C_1-C_6$  alkyl, optionally substituted with one, two or

15 three substituents selected from the group consisting of  $C_1-C_3$  alkyl,  $-F$ ,  $-Cl$ ,  $-Br$ ,  $-I$ ,  $-OH$ ,  $-SH$ ,  $-C\equiv N$ ,  $-CF_3$ ,  $C_1-C_3$  alkoxy, and  $-NR_{1-a}R_{1-b}$  where  $R_{1-a}$  and  $R_{1-b}$  are as defined above,

(2)  $-OH$ ,

(3)  $-NO_2$ ,

20 (4)  $-F$ ,  $-Cl$ ,  $-Br$ ,  $-I$ ,

(5)  $-CO-OH$ ,

(6)  $-C\equiv N$ ,

(7)  $-(CH_2)_{0-4}-CO-NR_{N-2}R_{N-3}$  where  $R_{N-2}$  and  $R_{N-3}$  are the

same or different and are selected from the group consisting of:

25 (a)  $-H$ ,

(b)  $-C_1-C_6$  alkyl optionally substituted with one

substituent selected from the group consisting of:

(i)  $-OH$ , and

(ii)  $-NH_2$ ,

30 (c)  $-C_1-C_6$  alkyl optionally substituted with one,

two, or three  $-F$ ,  $-Cl$ ,  $-Br$ , or  $-I$ ,

(d)  $-C_3-C_7$  cycloalkyl,

(e)  $-(C_1-C_2$  alkyl $)-(C_3-C_7$  cycloalkyl),

(f) -(C<sub>1</sub>-C<sub>6</sub> alkyl)-O-(C<sub>1</sub>-C<sub>3</sub> alkyl),  
(g) -C<sub>2</sub>-C<sub>6</sub> alkenyl with one or two double bonds,  
(h) -C<sub>2</sub>-C<sub>6</sub> alkynyl with one or two triple bonds,  
(i) -C<sub>1</sub>-C<sub>6</sub> alkyl chain with one double bond and one

5 triple bond,  
(j) -R<sub>1</sub>-aryl where R<sub>1</sub>-aryl is as defined above, and  
(k) -R<sub>1</sub>-heteroaryl where R<sub>1</sub>-heteroaryl is as defined above,  
(8) -(CH<sub>2</sub>)<sub>0-4</sub>-CO-(C<sub>1</sub>-C<sub>12</sub> alkyl),  
(9) -(CH<sub>2</sub>)<sub>0-4</sub>-CO-(C<sub>2</sub>-C<sub>12</sub> alkenyl with one, two or three

10 double bonds),  
(10) -(CH<sub>2</sub>)<sub>0-4</sub>-CO-(C<sub>2</sub>-C<sub>12</sub> alkynyl with one, two or three  
triple bonds),  
(11) -(CH<sub>2</sub>)<sub>0-4</sub>-CO-(C<sub>3</sub>-C<sub>7</sub> cycloalkyl),  
(12) -(CH<sub>2</sub>)<sub>0-4</sub>-CO-R<sub>1</sub>-aryl where R<sub>1</sub>-aryl is as defined above,  
15 (13) -(CH<sub>2</sub>)<sub>0-4</sub>-CO-R<sub>1</sub>-heteroaryl where R<sub>1</sub>-heteroaryl is as defined  
above,  
(14) -(CH<sub>2</sub>)<sub>0-4</sub>-CO-R<sub>1</sub>-heterocycle where R<sub>1</sub>-heterocycle is as  
defined above,  
(15) -(CH<sub>2</sub>)<sub>0-4</sub>-CO-R<sub>N-4</sub> where R<sub>N-4</sub> is selected from the  
20 group consisting of morpholinyl, thiomorpholinyl, piperazinyl, piperidinyl,  
homomorpholinyl, homothiomorpholinyl, homothiomorpholinyl S-oxide,  
homothiomorpholinyl S,S-dioxide, pyrrolinyl and pyrrolidinyl where each group is  
optionally substituted with one, two, three, or four of C<sub>1</sub>-C<sub>6</sub> alkyl,  
(16) -(CH<sub>2</sub>)<sub>0-4</sub>-CO-O-R<sub>N-5</sub> where R<sub>N-5</sub> is selected from the  
25 group consisting of:  
(a) C<sub>1</sub>-C<sub>6</sub> alkyl,  
(b) -(CH<sub>2</sub>)<sub>0-2</sub>-(R<sub>1</sub>-aryl) where R<sub>1</sub>-aryl is as defined  
above,  
(c) C<sub>2</sub>-C<sub>6</sub> alkenyl containing one or two double  
30 bonds,  
(d) C<sub>2</sub>-C<sub>6</sub> alkynyl containing one or two triple  
bonds,  
(e) C<sub>3</sub>-C<sub>7</sub> cycloalkyl, and

(f)  $-(CH_2)_{0-2}-(R_{1-heteraryl})$  where  $R_{1-heteraryl}$  is as defined above,

(17)  $-(CH_2)_{0-4}-SO_2-NR_{N-2}R_{N-3}$  where  $R_{N-2}$  and  $R_{N-3}$  are as defined above,

5 (18)  $-(CH_2)_{0-4}-SO-(C_1-C_8$  alkyl),

(19)  $-(CH_2)_{0-4}-SO_2-(C_1-C_{12}$  alkyl),

(20)  $-(CH_2)_{0-4}-SO_2-(C_3-C_7$  cycloalkyl),

(21)  $-(CH_2)_{0-4}-N(H$  or  $R_{N-5})-CO-O-R_{N-5}$  where  $R_{N-5}$  can be the same or different and is as defined above,

10 (22)  $-(CH_2)_{0-4}-N(H$  or  $R_{N-5})-CO-N(R_{N-5})_2$ , where  $R_{N-5}$  can be the same or different and is as defined above,

(23)  $-(CH_2)_{0-4}-N-CS-N(R_{N-5})_2$ , where  $R_{N-5}$  can be the same or different and is as defined above,

15 (24)  $-(CH_2)_{0-4}-N(-H$  or  $R_{N-5})-CO-R_{N-2}$  where  $R_{N-5}$  and  $R_{N-2}$  can be the same or different and are as defined above,

(25)  $-(CH_2)_{0-4}-NR_{N-2}R_{N-3}$  where  $R_{N-2}$  and  $R_{N-3}$  can be the same or different and are as defined above,

(26)  $-(CH_2)_{0-4}-R_{N-4}$  where  $R_{N-4}$  is as defined above,

(27)  $-(CH_2)_{0-4}-O-CO-(C_1-C_6$  alkyl),

20 (28)  $-(CH_2)_{0-4}-O-P(O)-(OR_{N-aryl-1})_2$  where  $R_{N-aryl-1}$  is  $-H$  or  $C_1-C_4$  alkyl,

(29)  $-(CH_2)_{0-4}-O-CO-N(R_{N-5})_2$  where  $R_{N-5}$  is as defined above,

(30)  $-(CH_2)_{0-4}-O-CS-N(R_{N-5})_2$  where  $R_{N-5}$  is as defined

25 above,

(31)  $-(CH_2)_{0-4}-O-(R_{N-5})_2$  where  $R_{N-5}$  is as defined above,

(32)  $-(CH_2)_{0-4}-O-(R_{N-5})_2-COOH$  where  $R_{N-5}$  is as defined above,

(33)  $-(CH_2)_{0-4}-S-(R_{N-5})_2$  where  $R_{N-5}$  is as defined above,

30 (34)  $-(CH_2)_{0-4}-O-(C_1-C_6$  alkyl optionally substituted with one, two, three, four, or five of  $-F$ ),

(35)  $C_3-C_7$  cycloalkyl,

(36)  $C_2$ - $C_6$  alkenyl with one or two double bonds optionally substituted with  $C_1$ - $C_3$  alkyl, -F, -Cl, -Br, -I, -OH, -SH, -C≡N, -CF<sub>3</sub>,  $C_1$ - $C_3$  alkoxy, or -NR<sub>1-a</sub>R<sub>1-b</sub> where R<sub>1-a</sub> and R<sub>1-b</sub> are as defined above,

5 (37)  $C_2$ - $C_6$  alkynyl with one or two triple bonds optionally substituted with  $C_1$ - $C_3$  alkyl, -F, -Cl, -Br, -I, -OH, -SH, -C≡N, -CF<sub>3</sub>,  $C_1$ - $C_3$  alkoxy, or -NR<sub>1-a</sub>R<sub>1-b</sub> where R<sub>1-a</sub> and R<sub>1-b</sub> are as defined above,

(38) -(CH<sub>2</sub>)<sub>0-4</sub>-N(-H or R<sub>N-5</sub>)-SO<sub>2</sub>-R<sub>N-2</sub> where R<sub>N-5</sub> and R<sub>N-2</sub> can be the same or different and are as described above, or

10 (39) -(CH<sub>2</sub>)<sub>0-4</sub>-C<sub>3</sub>-C<sub>7</sub> cycloalkyl,  
(B) -R<sub>N-heteroaryl</sub> where R<sub>N-heteroaryl</sub> is selected from the group consisting of:

15 pyridinyl,  
pyrimidinyl,  
quinolinyl,  
benzothienyl,  
indolyl,  
indolinyl,  
pyridazinyl,  
pyrazinyl,  
20 isoindolyl,  
isoquinolyl,  
quinazolinyl,  
quinoxalinyl,  
phthalazinyl,  
imidazolyl,  
isoxazolyl,  
pyrazolyl,  
oxazolyl,  
thiazolyl,  
25 indolizinyl,  
indazolyl,  
benzothiazolyl,  
benzimidazolyl,  
30

benzofuranyl,  
furanyl,  
thienyl,  
pyrrolyl,  
5 oxadiazolyl,  
thiadiazolyl,  
triazolyl,  
tetrazolyl,  
oxazolopyridinyl,  
10 imidazopyridinyl,  
isothiazolyl,  
naphthyridinyl,  
cinnolinyl,  
carbazolyl,  
15 beta-carbolinyl,  
isochromanyl,  
chromanyl,  
tetrahydroisoquinolinyl,  
isoindolinyl,  
20 isobenzotetrahydrofuranyl,  
isobenzotetrahydrothienyl,  
isobenzothienyl,  
benzoxazolyl,  
pyridopyridinyl,  
25 benzotetrahydrofuranyl,  
benzotetrahydrothienyl,  
purinyl,  
benzodioxolyl,  
triazinyl,  
30 phenoxazinyl,  
phenothiazinyl,  
pteridinyl,  
benzothiazolyl,  
imidazopyridinyl,

imidazothiazolyl,  
dihydrobenzisoxazinyl,  
benzisoxazinyl,  
benzoxazinyl,  
5 dihydrobenzisothiazinyl,  
benzopyranyl,  
benzothiopyranyl,  
coumarinyl,  
isocoumarinyl,  
10 chromonyl,  
chromanonyl,  
pyridinyl-N-oxide,  
tetrahydroquinolinyl,  
dihydroquinolinyl,  
15 dihydroquinolinonyl,  
dihydroisoquinolinonyl,  
dihydrocoumarinyl,  
dihydroisocoumarinyl,  
isoindolinonyl,  
20 benzodioxanyl,  
benzoxazolinonyl,  
pyrrolyl N-oxide,  
pyrimidinyl N-oxide,  
pyridazinyl N-oxide,  
25 pyrazinyl N-oxide,  
quinolinyl N-oxide,  
indolyl N-oxide,  
indolinyl N-oxide,  
isoquinolyl N-oxide,  
30 quinazolinyl N-oxide,  
quinoxalinyl N-oxide,  
phthalazinyl N-oxide,  
imidazolyl N-oxide,  
isoxazolyl N-oxide,

oxazolyl N-oxide,  
 thiazolyl N-oxide,  
 indolizinyl N-oxide,  
 indazolyl N-oxide,  
 5 benzothiazolyl N-oxide,  
 benzimidazolyl N-oxide,  
 pyrrolyl N-oxide,  
 oxadiazolyl N-oxide,  
 thiadiazolyl N-oxide,  
 10 triazolyl N-oxide,  
 tetrazolyl N-oxide,  
 benzothiopyranyl S-oxide, and  
 benzothiopyranyl S,S-dioxide

where the  $R_{N\text{-heteraryl}}$  group is bonded by any atom of the parent  $R_N$ .

15 heteroaryl group substituted by hydrogen such that the new bond to the  $R_{N\text{-heteraryl}}$  group replaces the hydrogen atom and its bond, where heteroaryl is optionally substituted with one, two, three, or four of:

(1)  $C_1\text{-}C_6$  alkyl, optionally substituted with one, two or three substituents selected from the group consisting of  $C_1\text{-}C_3$  alkyl, -F, -Cl, -Br, -I,  
 20 -OH, -SH, -C≡N, -CF<sub>3</sub>,  $C_1\text{-}C_3$  alkoxy, and -NR<sub>1-a</sub>R<sub>1-b</sub> where R<sub>1-a</sub> and R<sub>1-b</sub> are as defined above,

(2) -OH,  
 (3) -NO<sub>2</sub>,  
 (4) -F, -Cl, -Br, or -I,  
 25 (5) -CO-OH,  
 (6) -C≡N,  
 (7) -(CH<sub>2</sub>)<sub>0-4</sub>-CO-NR<sub>N-2</sub>R<sub>N-3</sub> where R<sub>N-2</sub> and R<sub>N-3</sub> are the same or different and are selected from the group consisting of:

(a) -H,  
 30 (b)  $C_1\text{-}C_6$  alkyl optionally substituted with one substituent selected from the group consisting of:

(i) -OH, and  
 (ii) -NH<sub>2</sub>,

(c)  $-C_1-C_6$  alkyl optionally substituted with one, two, or three  $-F$ ,  $-Cl$ ,  $-Br$ ,  $-I$ ,

(d)  $-C_3-C_7$  cycloalkyl,

(e)  $-(C_1-C_2$  alkyl $)-(C_3-C_7$  cycloalkyl),

(f)  $-(C_1-C_6$  alkyl $)-O-(C_1-C_3$  alkyl),

(g)  $-C_2-C_6$  alkenyl with one or two double bonds,

(h)  $-C_2-C_6$  alkynyl with one or two triple bonds,

(i)  $-C_1-C_6$  alkyl chain with one double bond and one triple bond,

(j)  $-R_{1-aryl}$  where  $R_{1-aryl}$  is as defined above,

(k)  $-R_{1-heteroaryl}$  where  $R_{1-heteroaryl}$  is as defined above,

(8)  $-(CH_2)_{0-4}-CO-(C_1-C_{12}$  alkyl),

(9)  $-(CH_2)_{0-4}-CO-(C_2-C_{12}$  alkenyl with one, two or three double bonds),

(10)  $-(CH_2)_{0-4}-CO-(C_2-C_{12}$  alkynyl with one, two or three triple bonds),

(11)  $-(CH_2)_{0-4}-CO-(C_3-C_7$  cycloalkyl),

(12)  $-(CH_2)_{0-4}-CO-R_{1-aryl}$  where  $R_{1-aryl}$  is as defined above,

(13)  $-(CH_2)_{0-4}-CO-R_{1-heteroaryl}$  where  $R_{1-heteroaryl}$  is as defined above,

(14)  $-(CH_2)_{0-4}-CO-R_{1-heterocycle}$  where  $R_{1-heterocycle}$  is as defined above,

(15)  $-(CH_2)_{0-4}-CO-R_{N-4}$  where  $R_{N-4}$  is selected from the group consisting of morpholinyl, thiomorpholinyl, piperazinyl, piperidinyl, homomorpholinyl, homothiomorpholinyl, homothiomorpholinyl S-oxide, homothiomorpholinyl S,S-dioxide, pyrrolinyl and pyrrolidinyl where each group is optionally substituted with one, two, three, or four of  $C_1-C_6$  alkyl,

(16)  $-(CH_2)_{0-4}-CO-O-R_{N-5}$  where  $R_{N-5}$  is selected from the group consisting of:

(a)  $C_1-C_6$  alkyl,

(b)  $-(CH_2)_{0-2}-(R_{1-aryl})$  where  $R_{1-aryl}$  is as defined above,

(c)  $C_2-C_6$  alkenyl containing one or two double bonds,

(d)  $C_2$ - $C_6$  alkynyl containing one or two triple bonds,

(e)  $C_3$ - $C_7$  cycloalkyl, and

(f)  $-(CH_2)_{0-2}-(R_{1-heteroaryl})$  where  $R_{1-heteroaryl}$  is as defined above,

5 (17)  $-(CH_2)_{0-4}-SO_2-NR_{N-2}R_{N-3}$  where  $R_{N-2}$  and  $R_{N-3}$  are as defined above,

(18)  $-(CH_2)_{0-4}-SO-(C_1-C_8$  alkyl),

(19)  $-(CH_2)_{0-4}-SO_2-(C_1-C_{12}$  alkyl),

10 (20)  $-(CH_2)_{0-4}-SO_2-(C_3-C_7$  cycloalkyl),

(21)  $-(CH_2)_{0-4}-N(H$  or  $R_{N-5})-CO-O-R_{N-5}$  where  $R_{N-5}$  can be the same or different and is as defined above,

(22)  $-(CH_2)_{0-4}-N(H$  or  $R_{N-5})-CO-N(R_{N-5})_2$ , where  $R_{N-5}$  can be the same or different and is as defined above,

15 (23)  $-(CH_2)_{0-4}-N-CS-N(R_{N-5})_2$ , where  $R_{N-5}$  can be the same or different and is as defined above,

(24)  $-(CH_2)_{0-4}-N(-H$  or  $R_{N-5})-CO-R_{N-2}$  where  $R_{N-5}$  and  $R_{N-2}$  can be the same or different and are as defined above,

(25)  $-(CH_2)_{0-4}-NR_{N-2}R_{N-3}$  where  $R_{N-2}$  and  $R_{N-3}$  can be the same or different and are as defined above,

20 (26)  $-(CH_2)_{0-4}-R_{N-4}$  where  $R_{N-4}$  is as defined above,

(27)  $-(CH_2)_{0-4}-O-CO-(C_1-C_6$  alkyl),

(28)  $-(CH_2)_{0-4}-O-P(O)-(OR_{N-aryl-1})_2$  where  $R_{N-aryl-1}$  is  $-H$  or  $C_1-C_4$  alkyl,

25 (29)  $-(CH_2)_{0-4}-O-CO-N(R_{N-5})_2$  where  $R_{N-5}$  is as defined above,

(30)  $-(CH_2)_{0-4}-O-CS-N(R_{N-5})_2$  where  $R_{N-5}$  is as defined above,

(31)  $-(CH_2)_{0-4}-O-(R_{N-5})_2$  where  $R_{N-5}$  is as defined above,

30 (32)  $-(CH_2)_{0-4}-O-(R_{N-5})_2-COOH$  where  $R_{N-5}$  is as defined above,

(33)  $-(CH_2)_{0-4}-S-(R_{N-5})_2$  where  $R_{N-5}$  is as defined above,

(34)  $-(CH_2)_{0-4}-O-(C_1-C_6$  alkyl optionally substituted with one, two, three, four, or five of  $-F$ ),

(35) C<sub>3</sub>-C<sub>7</sub> cycloalkyl,

(36) C<sub>2</sub>-C<sub>6</sub> alkenyl with one or two double bonds optionally substituted with C<sub>1</sub>-C<sub>3</sub> alkyl, -F, -Cl, -Br, -I, -OH, -SH, -C≡N, -CF<sub>3</sub>, C<sub>1</sub>-C<sub>3</sub> alkoxy, or -NR<sub>1-a</sub>R<sub>1-b</sub> where R<sub>1-a</sub> and R<sub>1-b</sub> are as defined above,

5 (37) C<sub>2</sub>-C<sub>6</sub> alkynyl with one or two triple bonds optionally substituted with C<sub>1</sub>-C<sub>3</sub> alkyl, -F, -Cl, -Br, -I, -OH, -SH, -C≡N, -CF<sub>3</sub>, C<sub>1</sub>-C<sub>3</sub> alkoxy, or -NR<sub>1-a</sub>R<sub>1-b</sub> where R<sub>1-a</sub> and R<sub>1-b</sub> are as defined above,

(38) -(CH<sub>2</sub>)<sub>0-4</sub>-N(-H or R<sub>N-5</sub>)-SO<sub>2</sub>-R<sub>N-2</sub> where R<sub>N-5</sub> and R<sub>N-2</sub> can be the same or different and are as defined above, or

10 (39) -(CH<sub>2</sub>)<sub>0-4</sub>- C<sub>3</sub>-C<sub>7</sub> cycloalkyl,

(C) R<sub>N-aryl</sub>-W-R<sub>N-aryl</sub>, where R<sub>N-aryl</sub> can be the same or different,

(D) R<sub>N-aryl</sub>-W-R<sub>N-heteroaryl</sub>,

(E) R<sub>N-aryl</sub>-W-R<sub>N-1-heterocycle</sub>, wherein R<sub>N-1-heterocycle</sub> is the same as R<sub>1-heterocycle</sub>, and R<sub>1-heterocycle</sub> is as defined above

15 (F) R<sub>N-heteroaryl</sub>-W-R<sub>N-aryl</sub>,

(G) R<sub>N-heteroaryl</sub>-W-R<sub>N-heteroaryl</sub>,

(H) R<sub>N-heteroaryl</sub>-W-R<sub>N-1-heterocycle</sub>,

(I) R<sub>N-heterocycle</sub>-W-R<sub>N-aryl</sub>, wherein R<sub>N-heterocycle</sub> is the same as R<sub>1-heterocycle</sub>, and R<sub>1-heterocycle</sub> is as defined above, and R<sub>N-aryl</sub> is as defined above,

20 (J) R<sub>N-heterocycle</sub>-W-R<sub>N-heteroaryl</sub>, and

(K) R<sub>N-heterocycle</sub>-W-R<sub>N-1-heterocycle</sub>,

where W is

(1) -(CH<sub>2</sub>)<sub>0-4</sub>-,

(2) -O-,

25 (3) -S(O)<sub>0-2</sub>-,

(4) -N(R<sub>N-5</sub>)- where R<sub>N-5</sub> is as defined above, or

(5) -CO-;

(II) -CO-(C<sub>1</sub>-C<sub>10</sub> alkyl) where alkyl is optionally substituted with one three substituents selected from the group consisting of:

30 (A) -OH,

(B) -C<sub>1</sub>-C<sub>6</sub> alkoxy,

(C) -C<sub>1</sub>-C<sub>6</sub> thioalkoxy,

(D) -CO-O-R<sub>N-8</sub> where R<sub>N-8</sub> is -H, C<sub>1</sub>-C<sub>6</sub> alkyl or -phenyl,

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(E)  $-\text{CO}-\text{NR}_{\text{N}-2}\text{R}_{\text{N}-3}$  where  $\text{R}_{\text{N}-2}$  and  $\text{R}_{\text{N}-3}$  are the same or different and are as defined above,

(F)  $-\text{CO}-\text{R}_{\text{N}-4}$  where  $\text{R}_{\text{N}-4}$  is as defined above,

(G)  $-\text{SO}_2-(\text{C}_1\text{-C}_8\text{ alkyl})$ ,

5 (H)  $-\text{SO}_2-\text{NR}_{\text{N}-2}\text{R}_{\text{N}-3}$  where  $\text{R}_{\text{N}-2}$  and  $\text{R}_{\text{N}-3}$  are the same or different and are as defined above,

(I)  $-\text{NH}-\text{CO}-(\text{C}_1\text{-C}_6\text{ alkyl})$ ,

(J)  $-\text{NH}-\text{CO}-\text{O}-\text{R}_{\text{N}-8}$  where  $\text{R}_{\text{N}-8}$  is as defined above,

10 (K)  $-\text{NR}_{\text{N}-2}\text{R}_{\text{N}-3}$  where  $\text{R}_{\text{N}-2}$  and  $\text{R}_{\text{N}-3}$  are the same or different and are as defined above,

(L)  $-\text{R}_{\text{N}-4}$  where  $\text{R}_{\text{N}-4}$  is as defined above,

(M)  $-\text{O}-\text{CO}-(\text{C}_1\text{-C}_6\text{ alkyl})$ ,

15 (N)  $-\text{O}-\text{CO}-\text{NR}_{\text{N}-8}\text{R}_{\text{N}-8}$  where  $\text{R}_{\text{N}-8}$  are the same or different and are as defined above,

(O)  $-\text{O}-(\text{C}_1\text{-C}_5\text{ alkyl})-\text{COOH}$ ,

20 (P)  $-\text{O}-(\text{C}_1\text{-C}_6\text{ alkyl}$  optionally substituted with one, two, or three of  $-\text{F}$ ,  $-\text{Cl}$ ,  $-\text{Br}$ , or  $-\text{I}$ ),

(Q)  $-\text{NH}-\text{SO}_2-(\text{C}_1\text{-C}_6\text{ alkyl})$ , and

(R)  $-\text{F}$ , or  $-\text{Cl}$ ,

25 (III)  $-\text{CO}-(\text{C}_1\text{-C}_6\text{ alkyl})-\text{O}-(\text{C}_1\text{-C}_6\text{ alkyl})$  where alkyl is optionally substituted with one, two, or three substituents selected from the group consisting of:

(A)  $-\text{OH}$ ,

(B)  $-\text{C}_1\text{-C}_6\text{ alkoxy}$ ,

(C)  $-\text{C}_1\text{-C}_6\text{ thioalkoxy}$ ,

30 (D)  $-\text{CO}-\text{O}-\text{R}_{\text{N}-8}$  where  $\text{R}_{\text{N}-8}$  is  $-\text{H}$ ,  $\text{C}_1\text{-C}_6\text{ alkyl}$  or  $-\text{phenyl}$ ,

(E)  $-\text{CO}-\text{NR}_{\text{N}-2}\text{R}_{\text{N}-3}$  where  $\text{R}_{\text{N}-2}$  and  $\text{R}_{\text{N}-3}$  are the same or different and are as defined above,

(F)  $-\text{CO}-\text{R}_{\text{N}-4}$  where  $\text{R}_{\text{N}-4}$  is as defined above,

(G)  $-\text{SO}_2-(\text{C}_1\text{-C}_8\text{ alkyl})$ ,

35 (H)  $-\text{SO}_2-\text{NR}_{\text{N}-2}\text{R}_{\text{N}-3}$  where  $\text{R}_{\text{N}-2}$  and  $\text{R}_{\text{N}-3}$  are the same or different and are as defined above,

(I)  $-\text{NH}-\text{CO}-(\text{C}_1\text{-C}_6\text{ alkyl})$ ,

(J)  $-\text{NH}-\text{CO}-\text{O}-\text{R}_{\text{N}-8}$  where  $\text{R}_{\text{N}-8}$  is as defined above,

(K)  $-\text{NR}_{\text{N-2}}\text{R}_{\text{N-3}}$  where  $\text{R}_{\text{N-2}}$  and  $\text{R}_{\text{N-3}}$  are the same or different and are as defined above,

(L)  $-\text{R}_{\text{N-4}}$  where  $\text{R}_{\text{N-4}}$  is as defined above,

(M)  $-\text{O}-\text{CO}-(\text{C}_1\text{-C}_6 \text{ alkyl})$ ,

5 (N)  $-\text{O}-\text{CO}-\text{NR}_{\text{N-8}}\text{R}_{\text{N-8}}$  where  $\text{R}_{\text{N-8}}$  are the same or different and are as defined above,

(O)  $-\text{O}-(\text{C}_1\text{-C}_5 \text{ alkyl})-\text{COOH}$ ,

10 (P)  $-\text{O}-(\text{C}_1\text{-C}_6 \text{ alkyl}$  optionally substituted with one, two, or three of  $-\text{F}$ ,  $-\text{Cl}$ ,  $-\text{Br}$ , or  $-\text{I}$ ),

(Q)  $-\text{NH}-\text{SO}_2-(\text{C}_1\text{-C}_6 \text{ alkyl})$ , and

(R)  $-\text{F}$ , or  $-\text{Cl}$ ,

(IV)  $-\text{CO}-(\text{C}_1\text{-C}_6 \text{ alkyl})-\text{S}-(\text{C}_1\text{-C}_6 \text{ alkyl})$  where alkyl is optionally substituted with one, two, or three of substituents selected from the group consisting of:

15 (A)  $-\text{OH}$ ,

(B)  $-\text{C}_1\text{-C}_6 \text{ alkoxy}$ ,

(C)  $-\text{C}_1\text{-C}_6 \text{ thioalkoxy}$ ,

(D)  $-\text{CO}-\text{O}-\text{R}_{\text{N-8}}$  where  $\text{R}_{\text{N-8}}$  is as defined above,

20 (E)  $-\text{CO}-\text{NR}_{\text{N-2}}\text{R}_{\text{N-3}}$  where  $\text{R}_{\text{N-2}}$  and  $\text{R}_{\text{N-3}}$  are the same or different and are as defined above,

(F)  $-\text{CO}-\text{R}_{\text{N-4}}$  where  $\text{R}_{\text{N-4}}$  is as defined above,

(G)  $-\text{SO}_2-(\text{C}_1\text{-C}_8 \text{ alkyl})$ ,

25 (H)  $-\text{SO}_2-\text{NR}_{\text{N-2}}\text{R}_{\text{N-3}}$  where  $\text{R}_{\text{N-2}}$  and  $\text{R}_{\text{N-3}}$  are the same or different and are as defined above,

(I)  $-\text{NH}-\text{CO}-(\text{C}_1\text{-C}_6 \text{ alkyl})$ ,

30 (J)  $-\text{NH}-\text{CO}-\text{O}-\text{R}_{\text{N-8}}$  where  $\text{R}_{\text{N-8}}$  is as defined above,

(K)  $-\text{NR}_{\text{N-2}}\text{R}_{\text{N-3}}$  where  $\text{R}_{\text{N-2}}$  and  $\text{R}_{\text{N-3}}$  are the same or different and are as defined above,

(L)  $-\text{R}_{\text{N-4}}$  where  $\text{R}_{\text{N-4}}$  is as defined above,

(M)  $-\text{O}-\text{CO}-(\text{C}_1\text{-C}_6 \text{ alkyl})$ ,

35 (N)  $-\text{O}-\text{CO}-\text{NR}_{\text{N-8}}\text{R}_{\text{N-8}}$  where  $\text{R}_{\text{N-8}}$  are the same or different and are as defined above,

(O)  $-\text{O}-(\text{C}_1\text{-C}_5 \text{ alkyl})-\text{COOH}$ ,

(P)  $-\text{O}-(\text{C}_1\text{-C}_6 \text{ alkyl}$  optionally substituted with one, two, or three of  
 $-\text{F}$ ,  $-\text{Cl}$ ,  $-\text{Br}$ , or  $-\text{I}$ ),

(Q)  $-\text{NH-SO}_2-(\text{C}_1\text{-C}_6 \text{ alkyl})$ , and

(R)  $-\text{F}$ , or  $-\text{Cl}$ ,

5 (V)  $-\text{CO-CH}(-(\text{CH}_2)_{0-2}\text{-O-R}_{\text{N-10}})-(\text{CH}_2)_{0-2}\text{-R}_{\text{N-aryl}}/\text{R}_{\text{N-heteroaryl}}$  where  $\text{R}_{\text{N-aryl}}$  and  $\text{R}_{\text{N-heteroaryl}}$  are as defined above, where  $\text{R}_{\text{N-10}}$  is selected from the group consisting of:

(A)  $-\text{H}$ ,

(B)  $\text{C}_1\text{-C}_6 \text{ alkyl}$ ,

(C)  $\text{C}_3\text{-C}_7 \text{ cycloalkyl}$ ,

10 (D)  $\text{C}_2\text{-C}_6 \text{ alkenyl}$  with one double bond,

(E)  $\text{C}_2\text{-C}_6 \text{ alkynyl}$  with one triple bond,

(F)  $\text{R}_{\text{1-aryl}}$  where  $\text{R}_{\text{1-aryl}}$  is as defined above, and

(G)  $\text{R}_{\text{N-heteroaryl}}$  where  $\text{R}_{\text{N-heteroaryl}}$  is as defined above, or

15 (VI)  $-\text{CO-(C}_3\text{-C}_8 \text{ cycloalkyl)}$  where alkyl is optionally substituted with one or two substitutents selected from the group consisting of:

(A)  $-(\text{CH}_2)_{0-4}\text{-OH}$ ,

(B)  $-(\text{CH}_2)_{0-4}\text{-C}_1\text{-C}_6 \text{ alkoxy}$ ,

(C)  $-(\text{CH}_2)_{0-4}\text{-C}_1\text{-C}_6 \text{ thioalkoxy}$ ,

(D)  $-(\text{CH}_2)_{0-4}\text{-CO-O-R}_{\text{N-8}}$  where  $\text{R}_{\text{N-8}}$  is  $-\text{H}$ ,  $\text{C}_1\text{-C}_6 \text{ alkyl}$  or phenyl,

20 (E)  $-(\text{CH}_2)_{0-4}\text{-CO-NR}_{\text{N-2}}\text{R}_{\text{N-3}}$  where  $\text{R}_{\text{N-2}}$  and  $\text{R}_{\text{N-3}}$  are the same or different and are as defined above,

(F)  $-(\text{CH}_2)_{0-4}\text{-CO-R}_{\text{N-4}}$  where  $\text{R}_{\text{N-4}}$  is as defined above,

(G)  $-(\text{CH}_2)_{0-4}\text{-SO}_2-(\text{C}_1\text{-C}_8 \text{ alkyl})$ ,

(H)  $-(\text{CH}_2)_{0-4}\text{-SO}_2\text{-NR}_{\text{N-2}}\text{R}_{\text{N-3}}$  where  $\text{R}_{\text{N-2}}$  and  $\text{R}_{\text{N-3}}$  are the same or

25 different and are as defined above,

(I)  $-(\text{CH}_2)_{0-4}\text{-NH-CO-(C}_1\text{-C}_6 \text{ alkyl})$ ,

(J)  $-\text{NH-CO-O-R}_{\text{N-8}}$  where  $\text{R}_{\text{N-8}}$  is as defined above,

(K)  $-(\text{CH}_2)_{0-4}\text{-NR}_{\text{N-2}}\text{R}_{\text{N-3}}$  where  $\text{R}_{\text{N-2}}$  and  $\text{R}_{\text{N-3}}$  are the same or

different and are as defined above,

30 (L)  $-(\text{CH}_2)_{0-4}\text{-R}_{\text{N-4}}$  where  $\text{R}_{\text{N-4}}$  is as defined above,

(M)  $-\text{O-CO-(C}_1\text{-C}_6 \text{ alkyl})$ ,

(N) -O-CO-NR<sub>N-8</sub>R<sub>N-8</sub> where R<sub>N-8</sub> are the same or different and are as defined above,

(O) -O-(C<sub>1</sub>-C<sub>5</sub> alkyl)-COOH,

(P) -O-(C<sub>1</sub>-C<sub>6</sub> alkyl optionally substituted with one, two, or three of

5 -F, -Cl, -Br, or -I),

(Q) -NH-SO<sub>2</sub>-(C<sub>1</sub>-C<sub>6</sub> alkyl), and

(R) -F, or -Cl;

where R<sub>A</sub> is:

10 (I)-C<sub>1</sub>-C<sub>10</sub> alkyl optionally substituted with one, two or three substituents selected from the group consisting of C<sub>1</sub>-C<sub>3</sub> alkyl, -F, -Cl, -Br, -I, -OH,

-SH, -C≡N, -CF<sub>3</sub>, C<sub>1</sub>-C<sub>6</sub> alkoxy, -O-phenyl, -NR<sub>1-a</sub>R<sub>1-b</sub> where R<sub>1-a</sub> and R<sub>1-b</sub> are as defined above, -OC=O NR<sub>1-a</sub>R<sub>1-b</sub> where R<sub>1-a</sub> and R<sub>1-b</sub> are as defined above, -S(=O)<sub>0.2</sub> R<sub>1-a</sub> where R<sub>1-a</sub> is as defined above, -NR<sub>1-a</sub>C=O NR<sub>1-a</sub>R<sub>1-b</sub> where R<sub>1-a</sub> and R<sub>1-b</sub> are as defined above, -15 C=O NR<sub>1-a</sub>R<sub>1-b</sub> where R<sub>1-a</sub> and R<sub>1-b</sub> are as defined above, and -S(=O)<sub>2</sub> NR<sub>1-a</sub>R<sub>1-b</sub> where R<sub>1-a</sub> and R<sub>1-b</sub> are as defined above,

20 (II) -(CH<sub>2</sub>)<sub>0-3</sub>-(C<sub>3</sub>-C<sub>8</sub>) cycloalkyl where cycloalkyl can be optionally substituted with one, two or three substituents selected from the group consisting of C<sub>1</sub>-C<sub>3</sub> alkyl, -F, -Cl, -Br, -I, -OH, -SH, -C≡N, -CF<sub>3</sub>, C<sub>1</sub>-C<sub>6</sub> alkoxy, -O-phenyl, -CO-OH, -CO-

25 O-(C<sub>1</sub>-C<sub>4</sub> alkyl), and -NR<sub>1-a</sub>R<sub>1-b</sub> where R<sub>1-a</sub> and R<sub>1-b</sub> are as defined above,

(III) -(CR<sub>A-x</sub>R<sub>A-y</sub>)<sub>0-4</sub>-R<sub>A-aryl</sub> where R<sub>A-x</sub> and R<sub>A-y</sub> are

(A) -H,

(B) C<sub>1</sub>-C<sub>4</sub> alkyl optionally substituted with one or two -OH,

(C) C<sub>1</sub>-C<sub>4</sub> alkoxy optionally substituted with one, two, or three of -

25 F,

(D) -(CH<sub>2</sub>)<sub>0-4</sub>-C<sub>3</sub>-C<sub>7</sub> cycloalkyl,

(E) C<sub>2</sub>-C<sub>6</sub> alkenyl containing one or two double bonds,

(F) C<sub>2</sub>-C<sub>6</sub> alkynyl containing one or two triple bonds, or

(G) phenyl,

30 and where R<sub>A-x</sub> and R<sub>A-y</sub> are taken together with the carbon to which they are attached to form a carbocycle of three, four, five, six or seven carbon atoms, optionally where one carbon atom is replaced by a heteroatom selected from the group consisting of -O-, -S-, -SO<sub>2</sub>-, and -NR<sub>N-2</sub>- and R<sub>A-aryl</sub> is the same as R<sub>N-aryl</sub>,

(IV)  $-(CR_{A-x}R_{A-y})_{0-4}-R_{A-heteroaryl}$  where  $R_{A-heteroaryl}$  is the same as  $R_{N-heteroaryl}$  and  $R_{A-x}$  and  $R_{A-y}$  are as defined above,

(V)  $-(CR_{A-x}R_{A-y})_{0-4}-R_{A-aryl}-R_{A-aryl}$  where  $R_{A-aryl}$ ,  $R_{A-x}$  and  $R_{A-y}$  are as defined above,

5 (VI)  $-(CR_{A-x}R_{A-y})_{0-4}-R_{A-aryl}-R_{A-heteroaryl}$  where  $R_{A-aryl}$ ,  $R_{A-heteroaryl}$ ,  $R_{A-x}$  and  $R_{A-y}$  are as defined above,

(VII)  $-(CR_{A-x}R_{A-y})_{0-4}-R_{A-heteroaryl}-R_{A-aryl}$  where  $R_{A-heteroaryl}$ ,  $R_{A-aryl}$ ,  $R_{A-x}$  and  $R_{A-y}$  are as defined above,

10 (VIII)  $-(CR_{A-x}R_{A-y})_{0-4}-R_{A-heteroaryl}-R_{A-heteroaryl}$  where  $R_{A-heteroaryl}$ ,  $R_{A-x}$  and  $R_{A-y}$  are as defined above,

(IX)  $-(CR_{A-x}R_{A-y})_{0-4}-R_{A-aryl}-R_{A-heterocycle}$  where  $R_{A-heterocycle}$  is defined as  $R_1$ -heterocycle, and where  $R_{A-aryl}$ ,  $R_{A-x}$  and  $R_{A-y}$  are as defined above,

(X)  $-(CR_{A-x}R_{A-y})_{0-4}-R_{A-heteroaryl}-R_{A-heterocycle}$  where  $R_{A-heteroaryl}$ ,  $R_{A-heterocycle}$ ,  $R_{A-x}$  and  $R_{A-y}$  are as defined above,

15 (XI)  $-(CR_{A-x}R_{A-y})_{0-4}-R_{A-heterocycle}-R_{A-aryl}$  where  $R_{A-heterocycle}$ ,  $R_{A-aryl}$ ,  $R_{A-x}$  and  $R_{A-y}$  are as defined above,

(XII)  $-(CR_{A-x}R_{A-y})_{0-4}-R_{A-heterocycle}-R_{A-heteroaryl}$  where  $R_{A-heterocycle}$ ,  $R_{A-heteroaryl}$ ,  $R_{A-x}$  and  $R_{A-y}$  are as defined above,

20 (XIII)  $-(CR_{A-x}R_{A-y})_{0-4}-R_{A-heterocycle}-R_{A-heterocycle}$  where  $R_{A-heterocycle}$ ,  $R_{A-x}$  and  $R_{A-y}$  are as defined above,

(XIV)  $-(CR_{A-x}R_{A-y})_{0-4}-R_{A-heterocycle}$  where  $R_{A-heterocycle}$ ,  $R_{A-x}$  and  $R_{A-y}$  are as defined above,

(XV)  $-[C(R_{A-1})(R_{A-2})]_{1-3}-CO-N-(R_{A-3})_2$  where  $R_{A-1}$  and  $R_{A-2}$  are the same or different and are selected from the group consisting of:

25 (A) -H,

(B)  $-C_1-C_6$  alkyl, optionally substituted with one, two or three substituents selected from the group consisting of  $C_1-C_3$  alkyl, -F, -Cl, -Br, -I, -OH, -SH, -C≡N, -CF<sub>3</sub>,  $C_1-C_6$  alkoxy, -O-phenyl, and -NR<sub>1-a</sub>R<sub>1-b</sub> where  $R_{1-a}$  and  $R_{1-b}$  are as defined above,

30 (C)  $C_2-C_6$  alkenyl with one or two double bonds, optionally substituted with one, two or three substituents selected from the group consisting of  $C_1-C_3$  alkyl, -F, -Cl, -Br, -I, -OH, -SH, -C≡N, -CF<sub>3</sub>,  $C_1-C_6$  alkoxy, -O-phenyl, and -NR<sub>1-a</sub>R<sub>1-b</sub> where  $R_{1-a}$  and  $R_{1-b}$  are as defined above,

(D) C<sub>2</sub>-C<sub>6</sub> alkynyl with one or two triple bonds, optionally substituted with one, two or three substituents selected from the group consisting of C<sub>1</sub>-C<sub>3</sub> alkyl, -F, -Cl, -Br, -I, -OH, -SH, -C≡N, -CF<sub>3</sub>, C<sub>1</sub>-C<sub>6</sub> alkoxy, -O-phenyl, and -NR<sub>1-a</sub>R<sub>1-b</sub> where R<sub>1-a</sub> and R<sub>1-b</sub> are as defined above,

5 (E) -(CH<sub>2</sub>)<sub>1-2</sub>-S(O)<sub>0-2</sub>-(C<sub>1</sub>-C<sub>6</sub> alkyl),  
 (F) -(CH<sub>2</sub>)<sub>0-4</sub>-C<sub>3</sub>-C<sub>7</sub> cycloalkyl, optionally substituted with one, two or three substituents selected from the group consisting of C<sub>1</sub>-C<sub>3</sub> alkyl, -F, -Cl, -Br, -I, -OH, -SH, -C≡N, -CF<sub>3</sub>, C<sub>1</sub>-C<sub>6</sub> alkoxy, -O-phenyl, and -NR<sub>1-a</sub>R<sub>1-b</sub> where R<sub>1-a</sub> and R<sub>1-b</sub> are as defined above,

10 (G) -(C<sub>1</sub>-C<sub>4</sub> alkyl)-R<sub>A'-aryl</sub> where R<sub>A'-aryl</sub> is as defined for R<sub>1-aryl</sub>,  
 (H) -(C<sub>1</sub>-C<sub>4</sub> alkyl)-R<sub>A-heteroaryl</sub> where R<sub>A-heteroaryl</sub> is as defined above,  
 (I) -(C<sub>1</sub>-C<sub>4</sub> alkyl)-R<sub>A-heterocycle</sub> where R<sub>A-heterocycle</sub> is as defined above,  
 (J) -R<sub>A-heteroaryl</sub> where R<sub>A-heteroaryl</sub> is as defined above,  
 (K) -R<sub>A-heterocycle</sub> where R<sub>A-heterocycle</sub> is as defined above,  
 15 (M) -(CH<sub>2</sub>)<sub>1-4</sub>-R<sub>A-4</sub>-(CH<sub>2</sub>)<sub>0-4</sub>-R<sub>A'-aryl</sub> where R<sub>A-4</sub> is -O-, -S- or -NR<sub>A-5</sub>- where R<sub>A-5</sub> is C<sub>1</sub>-C<sub>6</sub> alkyl, and where R<sub>A'-aryl</sub> is defined above,  
 (N) -(CH<sub>2</sub>)<sub>1-4</sub>-R<sub>A-4</sub>-(CH<sub>2</sub>)<sub>0-4</sub>-R<sub>A-heteroaryl</sub> where R<sub>A-4</sub> and R<sub>A-heteroaryl</sub> are as defined above, and  
 (O) -R<sub>A'-aryl</sub> where R<sub>A'-aryl</sub> is as defined above,  
 20 and where R<sub>A-3</sub> is the same or different and is:  
 (A) -H,  
 (B) -C<sub>1</sub>-C<sub>6</sub> alkyl optionally substituted with one, two or three substituents selected from the group consisting of C<sub>1</sub>-C<sub>3</sub> alkyl, -F, -Cl, -Br, -I, -OH, -SH, -C≡N, -CF<sub>3</sub>, C<sub>1</sub>-C<sub>6</sub> alkoxy, -O-phenyl, -NR<sub>1-a</sub>R<sub>1-b</sub> where R<sub>1-a</sub> and R<sub>1-b</sub> are as defined above,  
 25 (C) C<sub>2</sub>-C<sub>6</sub> alkenyl with one or two double bonds, optionally substituted with one, two or three substituents selected from the group consisting of C<sub>1</sub>-C<sub>3</sub> alkyl, -F, -Cl, -Br, -I, -OH, -SH, -C≡N, -CF<sub>3</sub>, C<sub>1</sub>-C<sub>6</sub> alkoxy, -O-phenyl, and -NR<sub>1-a</sub>R<sub>1-b</sub> where R<sub>1-a</sub> and R<sub>1-b</sub> are as defined above,  
 (D) C<sub>2</sub>-C<sub>6</sub> alkynyl with one or two triple bonds, optionally substituted with one, two or three substituents selected from the group consisting of C<sub>1</sub>-C<sub>3</sub> alkyl, -F, -Cl, -Br, -I, -OH, -SH, -C≡N, -CF<sub>3</sub>, C<sub>1</sub>-C<sub>6</sub> alkoxy, -O-phenyl, and -NR<sub>1-a</sub>R<sub>1-b</sub> where R<sub>1-a</sub> and R<sub>1-b</sub> are as defined above,

(E)  $-(CH_2)_{0-4}-C_3-C_7$  cycloalkyl, optionally substituted with one, two or three substituents selected from the group consisting of  $C_1-C_3$  alkyl, -F, -Cl, -Br, -I, -OH, -SH, -C≡N, -CF<sub>3</sub>,  $C_1-C_6$  alkoxy, -O-phenyl, and -NR<sub>1-a</sub>R<sub>1-b</sub> where R<sub>1-a</sub> and R<sub>1-b</sub> are as defined above,

5 (F) -R<sub>A'-aryl</sub> where R<sub>A'-aryl</sub> is as defined above,  
 (G) -R<sub>A-heteroaryl</sub> where R<sub>A-heteroaryl</sub> is as defined above,  
 (H) -R<sub>A-heterocycle</sub> where R<sub>A-heterocycle</sub> is as defined above,  
 (I) -(C<sub>1</sub>-C<sub>4</sub> alkyl)-R<sub>A'-aryl</sub> where R<sub>A'-aryl</sub> is as defined above,  
 (J) -(C<sub>1</sub>-C<sub>4</sub> alkyl)-R<sub>A-heteroaryl</sub> where R<sub>A-heteroaryl</sub> is as defined above,  
 10 (K) -(C<sub>1</sub>-C<sub>4</sub> alkyl)-R<sub>A-heterocycle</sub> where R<sub>A-heterocycle</sub> is as defined above, or

(XVI) -CH(R<sub>A-aryl</sub>)<sub>2</sub> where R<sub>A-aryl</sub> are the same or different and are as defined above,

15 (XVII) -CH(R<sub>A-heteroaryl</sub>)<sub>2</sub> where R<sub>A-heteroaryl</sub> are the same or different and are as defined above,

(XVIII) -CH(R<sub>A-aryl</sub>)(R<sub>A-heteroaryl</sub>) where R<sub>A-aryl</sub> and R<sub>A-heteroaryl</sub> are as defined above,

20 (XIX) -cyclopentyl, -cyclohexyl, or -cycloheptyl ring fused to R<sub>A-aryl</sub>, R<sub>A-heteroaryl</sub>, R<sub>A-heterocycle</sub> where R<sub>A-aryl</sub> or R<sub>A-heteroaryl</sub> or R<sub>A-heterocycle</sub> are as defined above where one carbon of cyclopentyl, cyclohexyl, or -cycloheptyl is optionally replaced with NH, NR<sub>N-5</sub>, O, or S(=O)<sub>0-2</sub>, and where cyclopentyl, cyclohexyl, or -cycloheptyl can be optionally substituted with one or two -C<sub>1</sub>-C<sub>3</sub> alkyl, -F, -OH, -SH, -C≡N, -CF<sub>3</sub>,  $C_1-C_6$  alkoxy, =O, or -NR<sub>1-a</sub>R<sub>1-b</sub> where R<sub>1-a</sub> and R<sub>1-b</sub> are as defined above,

25 (XX) C<sub>2</sub>-C<sub>10</sub> alkenyl containing one or two double bonds optionally substituted with one, two or three substituents selected from the group consisting of  $C_1-C_3$  alkyl, -F, -Cl, -Br, -I, -OH, -SH, -C≡N, -CF<sub>3</sub>,  $C_1-C_6$  alkoxy, -O-phenyl, and -NR<sub>1-a</sub>R<sub>1-b</sub> where R<sub>1-a</sub> and R<sub>1-b</sub> are as defined above,

30 (XXI) C<sub>2</sub>-C<sub>10</sub> alkynyl containing one or two triple bonds optionally substituted with one, two or three substituents selected from the group consisting of  $C_1-C_3$  alkyl, -F, -Cl, -Br, -I, -OH, -SH, -C≡N, -CF<sub>3</sub>,  $C_1-C_6$  alkoxy, -O-phenyl, -NR<sub>1-a</sub>R<sub>1-b</sub> where R<sub>1-a</sub> and R<sub>1-b</sub> are as defined above,

(XXI) -(CH<sub>2</sub>)<sub>0-1</sub>-CHR<sub>A-6</sub>-(CH<sub>2</sub>)<sub>0-1</sub>-R<sub>A-aryl</sub> where R<sub>A-aryl</sub> is as defined above and R<sub>A-6</sub> is -(CH<sub>2</sub>)<sub>0-6</sub>-OH,

(XXII)  $-(CH_2)_{0-1}-CHR_{A-6}-(CH_2)_{0-1}-R_{A-heteroaryl}$  where  $R_{A-heteroaryl}$  and  $R_{A-6}$  is as defined above,

(XXIII)  $-CH(-R_{A-aryl} \text{ or } R_{A-heteroaryl})-CO-O(C_1-C_4 \text{ alkyl})$  where  $R_{A-aryl}$  and  $R_{A-heteroaryl}$  are as defined above,

5 (XXIV)  $-CH(-CH_2-OH)-CH(-OH)-\text{micro-NO}_2$ ,

(XXV)  $(C_1-C_6 \text{ alkyl})-O-(C_1-C_6 \text{ alkyl})-OH$ ,

(XXVII)  $-CH_2-NH-CH_2-CH(-O-CH_2-CH_3)_2$ ,

(XXVIII)  $-H$ ,

10 (XXIX)  $-(CH_2)_{0-6}-C(=NR_{1-a})(NR_{1-a}R_{1-b})$  where  $R_{1-a}$  and  $R_{1-b}$  are as defined above; or

(XXX)

$-C=OC(HR_6)NHR_7$ , where  $R_6$  and  $R_7$  are as defined below,

$-C=OR_7$ , where  $R_7$  is as defined below,

$-C=OOR_7$ , where  $R_7$  is as defined below, or

15  $-SOOR_7$  where  $R_7$  is as defined below,

wherein  $R_6$  is:

hydrogen,

$C_1 - C_3$  alkyl,

phenyl,

20 thioalkoxyalkyl,

alkyl substituted aryl,

cycloalkyl,

cycloalkylalkyl,

hydroxyalkyl,

25 alkoxyalkyl,

aryloxyalkyl,

haloalkyl,

carboxyalkyl,

alkoxycarbonylalkyl,

30 aminoalkyl,

(N-protected)aminoalkyl,

alkylaminoalkyl,

((N-protected)(alkyl)amino)alkyl,

dialkylaminoalkyl,

guanidinoalkyl,  
lower alkenyl,  
heterocyclic,  
(heterocyclic)alkyl),  
5  
arylthioalkyl,  
arylsulfonylalkyl,  
(heterocyclic)thioalkyl,  
(heterocyclic)sulfonylalkyl,  
(heterocyclic)oxyalkyl,  
10  
arylalkoxyalkyl,  
arylthioalkoxyalkyl,  
arylalkylsulfonylalkyl,  
(heterocyclic)alkoxyalkyl,  
(heterocyclic)thioalkoxyalkyl,  
15  
(heterocyclic)alkylsulfonylalkyl,  
cycloalkyloxyalkyl,  
cycloalkylthioalkyl,  
cycloalkylsulfonylalkyl,  
cycloalkylalkoxyalkyl,  
20  
cycloalkylthioalkoxyalkyl,  
cycloalkylalkylsulfonylalkyl,  
aminocarbonyl,  
alkylaminocarbonyl,  
dialkylaminocarbonyl,  
25  
aroylalkyl,  
(heterocyclic)carbonylalkyl,  
polyhydroxyalkyl,  
aminocarbonylalkyl,  
alkylaminocarbonylalkyl,  
30  
dialkylaminocarbonylalkyl,  
aryloxyalkyl, or  
alkylsulfonylalkyl,

wherein heterocyclic is pyridyl, thiazolyl, isothiazolyl,  
oxazolyl, isoxazolyl, furanyl, thienyl, tetrahydrofuran, tetrahydrothienyl and

tetrahydro[2H]pyranyl and wherein the heterocycle is unsubstituted or substituted with one to three substituents independently selected from hydroxy, halo, amino, alkylamino, dialkylamino, alkoxy, polyalkoxy, haloalkyl, cycloalkyl, cycloalkylalkyl, aryl, arylalkyl, COOH, -SO<sub>3</sub>H, lower alkenyl or lower alkyl;

5

wherein R<sub>7</sub> is:

10

C<sub>1</sub> - C<sub>3</sub> alkyl,

phenyl,

thioalkoxyalkyl,

(aryl)alkyl,

cycloalkyl,

cycloalkylalkyl,

hydroxyalkyl,

alkoxyalkyl,

aryloxyalkyl,

haloalkyl,

carboxyalkyl,

alkoxycarbonylalkyl,

aminoalkyl,

(N-protected)aminocalkyl,

20

alkylaminoalkyl,

((N-protected)(alkyl)amino)alkyl,

dialkylaminoalkyl,

guanidinoalkyl,

lower alkenyl,

25

heterocyclic,

(heterocyclic)alkyl),

arylthioalkyl,

arylsulfonylalkyl,

(heterocyclic)thioalkyl,

30

(heterocyclic)sulfonylalkyl,

(heterocyclic)oxyalkyl,

arylalkoxyalkyl,

arylthioalkoxyalkyl,

arylalkylsulfonylalkyl,

(heterocyclic)alkoxyalkyl,  
(heterocyclic)thioalkoxyalkyl,  
(heterocyclic)alkylsulfonylalkyl,  
cycloalkyloxyalkyl,  
5 cycloalkylthioalkyl,  
cycloalkylsulfonylalkyl,  
cycloalkylalkoxyalkyl,  
cycloalkylthioalkoxyalkyl,  
cycloalkylalkylsulfonylalkyl,  
10 aminocarbonyl,  
alkylaminocarbonyl,  
dialkylaminocarbonyl,  
aroylalkyl,  
(heterocyclic)carbonylalkyl,  
15 polyhydroxyalkyl,  
aminocarbonylalkyl,  
alkylaminocarbonylalkyl,  
dialkylaminocarbonylalkyl,  
aryloxyalkyl, or  
20 alkylsulfonylalkyl,

wherein heterocyclic is pyridyl, thiazolyl, isothiazolyl, oxazolyl, isoxazolyl, furanyl, thienyl, tetrahydrofuranyl, tetrahydrothienyl and tetrahydro[2H]pyranyl and wherein the heterocycle is unsubstituted or substituted with one to three substituents independently selected from hydroxy, halo, amino, alkylamino, dialkylamino, alkoxy, polyalkoxy, haloalkyl, cycloalkyl, cycloalkylalkyl, aryl, arylalkyl, COOH, -SO<sub>3</sub>H, lower alkenyl or lower alkyl;

where X is -N, or -O, with the proviso that when X is O, R<sub>B</sub> is absent;  
and when X is N,  
30 R<sub>B</sub> is:  
(I)-C<sub>1</sub>-C<sub>10</sub> alkyl optionally substituted with one, two or three substituents selected from the group consisting of C<sub>1</sub>-C<sub>3</sub> alkyl, -F, -Cl, -Br, -I, -OH,

-SH, -C≡N, -CF<sub>3</sub>, C<sub>1</sub>-C<sub>6</sub> alkoxy, -O-phenyl, -NR<sub>1-a</sub>R<sub>1-b</sub> where R<sub>1-a</sub> and R<sub>1-b</sub> are as defined above, -OC=O NR<sub>1-a</sub>R<sub>1-b</sub> where R<sub>1-a</sub> and R<sub>1-b</sub> are as defined above, -S(=O)<sub>0-2</sub> R<sub>1-a</sub> where R<sub>1-a</sub> is as defined above, -NR<sub>1-a</sub>C=O NR<sub>1-a</sub>R<sub>1-b</sub> where R<sub>1-a</sub> and R<sub>1-b</sub> are as defined above, -C=O NR<sub>1-a</sub>R<sub>1-b</sub> where R<sub>1-a</sub> and R<sub>1-b</sub> are as defined above, and -S(=O)<sub>2</sub> NR<sub>1-a</sub>R<sub>1-b</sub> where R<sub>1-a</sub> and R<sub>1-b</sub> are as defined above,

5 a and R<sub>1-b</sub> are as defined above,

(II) -(CH<sub>2</sub>)<sub>0-3</sub>-(C<sub>3</sub>-C<sub>8</sub>) cycloalkyl where cycloalkyl can be optionally substituted with one, two or three substituents selected from the group consisting of C<sub>1</sub>-C<sub>3</sub> alkyl, -F, -Cl, -Br, -I, -OH, -SH, -C≡N, -CF<sub>3</sub>, C<sub>1</sub>-C<sub>6</sub> alkoxy, -O-phenyl, -CO-OH, -CO-O-(C<sub>1</sub>-C<sub>4</sub> alkyl), and -NR<sub>1-a</sub>R<sub>1-b</sub> where R<sub>1-a</sub> and R<sub>1-b</sub> are as defined above,

10 (III) -(CR<sub>B-x</sub>R<sub>B-y</sub>)<sub>0-4</sub>-R<sub>B-aryl</sub> where R<sub>B-x</sub> and R<sub>B-y</sub> are

(A) -H,

(B) C<sub>1</sub>-C<sub>4</sub> alkyl optionally substituted with one or two -OH,

(C) C<sub>1</sub>-C<sub>4</sub> alkoxy optionally substituted with one, two, or three of -F,

15 (D) -(CH<sub>2</sub>)<sub>0-4</sub>-C<sub>3</sub>-C<sub>7</sub> cycloalkyl,

(E) C<sub>2</sub>-C<sub>6</sub> alkenyl containing one or two double bonds,

(F) C<sub>2</sub>-C<sub>6</sub> alkynyl containing one or two triple bonds, or

(G) phenyl,

and where R<sub>B-x</sub> and R<sub>B-y</sub> are taken together with the carbon to

20 which they are attached to form a carbocycle of three, four, five, six or seven carbon atoms, optionally where one carbon atom is replaced by a heteroatom selected from the group consisting of -O-, -S-, -SO<sub>2</sub>-, and -NR<sub>N-2</sub> where R<sub>N-2</sub> is as defined above, and R<sub>B-aryl</sub> is the same as R<sub>N-aryl</sub> and is defined above

(IV) -(CR<sub>B-x</sub>R<sub>B-y</sub>)<sub>0-4</sub>-R<sub>B-heteroaryl</sub> where R<sub>B-heteroaryl</sub> is the same as R<sub>N-heteroaryl</sub>,

25 R<sub>B-x</sub>, and R<sub>B-y</sub> are as defined above,

(V) -(CR<sub>B-x</sub>R<sub>B-y</sub>)<sub>0-4</sub>-R<sub>B-aryl</sub>-R<sub>B-aryl</sub> where R<sub>B-aryl</sub>, R<sub>B-x</sub>, and R<sub>B-y</sub> are as defined above,

(VI) -(CR<sub>B-x</sub>R<sub>B-y</sub>)<sub>0-4</sub>-R<sub>B-aryl</sub>-R<sub>B-heteroaryl</sub> where R<sub>B-aryl</sub>, R<sub>B-heteroaryl</sub>, R<sub>B-x</sub> and R<sub>B-y</sub> are as defined above,

30 (VII) -(CR<sub>B-x</sub>R<sub>B-y</sub>)<sub>0-4</sub>-R<sub>B-heteroaryl</sub>-R<sub>B-aryl</sub> where R<sub>B-heteroaryl</sub>, R<sub>B-aryl</sub>, R<sub>B-x</sub> and R<sub>B-y</sub> are as defined above,

(VIII) -(CR<sub>B-x</sub>R<sub>B-y</sub>)<sub>0-4</sub>-R<sub>B-heteroaryl</sub>-R<sub>B-heteroaryl</sub> where R<sub>B-heteroaryl</sub>, R<sub>B-x</sub> and R<sub>B-y</sub> are as defined above,

(IX)  $-(CR_{B-x}R_{B-y})_{0-4}-R_{B-aryl}-R_{B-heterocycle}$  where  $R_{B-heterocycle}$  is defined as  $R_{1-heterocycle}$ , and where  $R_{B-aryl}$ ,  $R_{B-x}$  and  $R_{B-y}$  are as defined above,

(X)  $-(CR_{B-x}R_{B-y})_{0-4}-R_{B-heteroaryl}-R_{B-heterocycle}$  where  $R_{B-heteroaryl}$ ,  $R_{B-heterocycle}$ ,  $R_{B-x}$  and  $R_{B-y}$  are as defined above,

5 (XI)  $-(CR_{B-x}R_{B-y})_{0-4}-R_{B-heterocycle}-R_{B-aryl}$  where  $R_{B-heterocycle}$ ,  $R_{B-aryl}$ ,  $R_{B-x}$  and  $R_{B-y}$  are as defined above,

(XII)  $-(CR_{B-x}R_{B-y})_{0-4}-R_{B-heterocycle}-R_{B-heteroaryl}$  where  $R_{B-heterocycle}$ ,  $R_{B-heteroaryl}$ ,  $R_{B-x}$  and  $R_{B-y}$  are as defined above,

10 (XIII)  $-(CR_{B-x}R_{B-y})_{0-4}-R_{B-heterocycle}-R_{B-heterocycle}$  where  $R_{B-heterocycle}$ ,  $R_{B-x}$  and  $R_{B-y}$  are as defined above,

(XIV)  $-(CR_{B-x}R_{B-y})_{0-4}-R_{B-heterocycle}$  where  $R_{B-heterocycle}$ ,  $R_{B-x}$  and  $R_{B-y}$  are as defined above,

(XV)  $-[C(R_{B-1})(R_{B-2})]_{1-3}-CO-N-(R_{B-3})_2$  where  $R_{B-1}$  and  $R_{B-2}$  are the same or different and are selected from the group consisting of:

15 (A) -H,

(B)  $C_1-C_6$  alkyl, optionally substituted with one, two or three substituents selected from the group consisting of  $C_1-C_3$  alkyl, -F, -Cl, -Br, -I, -OH, -SH, -C≡N, -CF<sub>3</sub>,  $C_1-C_6$  alkoxy, -O-phenyl, and -NR<sub>1-a</sub>R<sub>1-b</sub> where R<sub>1-a</sub> and R<sub>1-b</sub> are as defined above,

20 (C)  $C_2-C_6$  alkenyl with one or two double bonds, optionally substituted with one, two or three substituents selected from the group consisting of  $C_1-C_3$  alkyl, -F, -Cl, -Br, -I, -OH, -SH, -C≡N, -CF<sub>3</sub>,  $C_1-C_6$  alkoxy, -O-phenyl, and -NR<sub>1-a</sub>R<sub>1-b</sub> where R<sub>1-a</sub> and R<sub>1-b</sub> are as defined above,

25 (D)  $C_2-C_6$  alkynyl with one or two triple bonds, optionally substituted with one, two or three substituents selected from the group consisting of  $C_1-C_3$  alkyl, -F, -Cl, -Br, -I, -OH, -SH, -C≡N, -CF<sub>3</sub>,  $C_1-C_6$  alkoxy, -O-phenyl, and -NR<sub>1-a</sub>R<sub>1-b</sub> where R<sub>1-a</sub> and R<sub>1-b</sub> are as defined above,

(E)  $-(CH_2)_{1-2}-S(O)_{0-2}-(C_1-C_6$  alkyl),

(F)  $-(CH_2)_{0-4}-C_3-C_7$  cycloalkyl, optionally substituted with one,

30 two or three substituents selected from the group consisting of  $C_1-C_3$  alkyl, -F, -Cl, -Br, -I, -OH, -SH, -C≡N, -CF<sub>3</sub>,  $C_1-C_6$  alkoxy, -O-phenyl, and -NR<sub>1-a</sub>R<sub>1-b</sub> where R<sub>1-a</sub> and R<sub>1-b</sub> are as defined above,

(G) -(C<sub>1</sub>-C<sub>4</sub> alkyl)-R<sub>B'-aryl</sub> where R<sub>B'-aryl</sub> is as defined above for R<sub>1-aryl</sub>,

(H) -(C<sub>1</sub>-C<sub>4</sub> alkyl)-R<sub>B-heteroaryl</sub> where R<sub>B-heteroaryl</sub> is as defined above,

(I) -(C<sub>1</sub>-C<sub>4</sub> alkyl)-R<sub>B-heterocycle</sub> where R<sub>B-heterocycle</sub> is as defined above,

5 (J) -R<sub>B-heteroaryl</sub> where R<sub>B-heteroaryl</sub> is as defined above,

(K) -R<sub>B-heterocycle</sub> where R<sub>B-heterocycle</sub> is as defined above,

(M) -(CH<sub>2</sub>)<sub>1-4</sub>-R<sub>B-4</sub>-(CH<sub>2</sub>)<sub>0-4</sub>-R<sub>B'-aryl</sub> where R<sub>B-4</sub> is -O-, -S- or -NR<sub>B-5</sub>- where R<sub>B-5</sub> is C<sub>1</sub>-C<sub>6</sub> alkyl, and where R<sub>B'-aryl</sub> is defined above,

10 (N) -(CH<sub>2</sub>)<sub>1-4</sub>-R<sub>B-4</sub>-(CH<sub>2</sub>)<sub>0-4</sub>-R<sub>B-heteroaryl</sub> where R<sub>B-4</sub> and R<sub>B-heteroaryl</sub> are as defined above, and

(O) -R<sub>B'-aryl</sub> where R<sub>B'-aryl</sub> is as defined above,

and where R<sub>B-3</sub> is the same or different and is:

(A) -H,

(B) -C<sub>1</sub>-C<sub>6</sub> alkyl optionally substituted with one, two or three

15 substituents selected from the group consisting of C<sub>1</sub>-C<sub>3</sub> alkyl, -F, -Cl, -Br, -I, -OH, -SH, -C≡N, -CF<sub>3</sub>, C<sub>1</sub>-C<sub>6</sub> alkoxy, -O-phenyl, and -NR<sub>1-a</sub>R<sub>1-b</sub> where R<sub>1-a</sub> and R<sub>1-b</sub> are as defined above,

20 (C) C<sub>2</sub>-C<sub>6</sub> alkenyl with one or two double bonds, optionally substituted with one, two or three substituents selected from the group consisting of C<sub>1</sub>-C<sub>3</sub> alkyl, -F, -Cl, -Br, -I, -OH, -SH, -C≡N, -CF<sub>3</sub>, C<sub>1</sub>-C<sub>6</sub> alkoxy, -O-phenyl, and -NR<sub>1-a</sub>R<sub>1-b</sub> where R<sub>1-a</sub> and R<sub>1-b</sub> are as defined above,

25 (D) C<sub>2</sub>-C<sub>6</sub> alkynyl with one or two triple bonds, optionally substituted with one, two or three substituents selected from the group consisting of C<sub>1</sub>-C<sub>3</sub> alkyl, -F, -Cl, -Br, -I, -OH, -SH, -C≡N, -CF<sub>3</sub>, C<sub>1</sub>-C<sub>6</sub> alkoxy, -O-phenyl, and -NR<sub>1-a</sub>R<sub>1-b</sub> where R<sub>1-a</sub> and R<sub>1-b</sub> are as defined above,

30 (E) -(CH<sub>2</sub>)<sub>0-4</sub>-C<sub>3</sub>-C<sub>7</sub> cycloalkyl, optionally substituted with one, two or three substituents selected from the group consisting of C<sub>1</sub>-C<sub>3</sub> alkyl, -F, -Cl, -Br, -I, -OH, -SH, -C≡N, -CF<sub>3</sub>, C<sub>1</sub>-C<sub>6</sub> alkoxy, -O-phenyl, and -NR<sub>1-a</sub>R<sub>1-b</sub> where R<sub>1-a</sub> and R<sub>1-b</sub> are as defined above,

(F) -R<sub>B'-aryl</sub> where R<sub>B'-aryl</sub> is as defined above,

(G) -R<sub>B-heteroaryl</sub> where R<sub>B-heteroaryl</sub> is as defined above,

(H) -R<sub>B-heterocycle</sub> where R<sub>B-heterocycle</sub> is as defined above,

(I) -(C<sub>1</sub>-C<sub>4</sub> alkyl)-R<sub>B'-aryl</sub> where R<sub>B'-aryl</sub> is as defined above,

(J) -(C<sub>1</sub>-C<sub>4</sub> alkyl)-R<sub>B</sub>-heteroaryl where R<sub>B</sub>-heteroaryl is as defined above,  
 (K) -(C<sub>1</sub>-C<sub>4</sub> alkyl)-R<sub>B</sub>-heterocycle where R<sub>B</sub>-heterocycle is as defined above, or

5 (XVI) -CH(R<sub>B</sub>-aryl)<sub>2</sub> where R<sub>B</sub>-aryl are the same or different and are as defined above,  
 (XVII) -CH(R<sub>B</sub>-heteroaryl)<sub>2</sub> where R<sub>B</sub>-heteroaryl are the same or different and are as defined above,

10 (XVIII) -CH(R<sub>B</sub>-aryl)(R<sub>B</sub>-heteroaryl) where R<sub>B</sub>-aryl and R<sub>B</sub>-heteroaryl are as defined above,

15 (XIX) -cyclopentyl, -cyclohexyl, or -cycloheptyl ring fused to R<sub>B</sub>-aryl or R<sub>B</sub>-heteroaryl or R<sub>B</sub>-heterocycle where R<sub>B</sub>-aryl or R<sub>B</sub>-heteroaryl or R<sub>B</sub>-heterocycle are as defined above where one carbon of cyclopentyl, cyclohexyl, or -cycloheptyl is optionally replaced with NH, NR<sub>N-5</sub>, O, or S(=O)<sub>0-2</sub>, and where cyclopentyl, cyclohexyl, or -cycloheptyl can be optionally substituted with one or two -C<sub>1</sub>-C<sub>3</sub> alkyl, -F, -OH, -SH, -C≡N, -CF<sub>3</sub>, C<sub>1</sub>-C<sub>6</sub> alkoxy, =O, or -NR<sub>1-a</sub>R<sub>1-b</sub> where R<sub>1-a</sub> and R<sub>1-b</sub> are as defined above,

20 (XX) C<sub>2</sub>-C<sub>10</sub> alkenyl containing one or two double bonds optionally substituted with one, two or three substituents selected from the group consisting of C<sub>1</sub>-C<sub>3</sub> alkyl, -F, -Cl, -Br, -I, -OH, -SH, -C≡N, -CF<sub>3</sub>, C<sub>1</sub>-C<sub>6</sub> alkoxy, -O-phenyl, and -NR<sub>1-a</sub>R<sub>1-b</sub> where R<sub>1-a</sub> and R<sub>1-b</sub> are as defined above,

25 (XXI) C<sub>2</sub>-C<sub>10</sub> alkynyl containing one or two triple bonds optionally substituted with one, two or three substituents selected from the group consisting of C<sub>1</sub>-C<sub>3</sub> alkyl, -F, -Cl, -Br, -I, -OH, -SH, -C≡N, -CF<sub>3</sub>, C<sub>1</sub>-C<sub>6</sub> alkoxy, -O-phenyl, and -NR<sub>1-a</sub>R<sub>1-b</sub> where R<sub>1-a</sub> and R<sub>1-b</sub> are as defined above,

30 (XXI) -(CH<sub>2</sub>)<sub>0-1</sub>-CHR<sub>C-6</sub>-(CH<sub>2</sub>)<sub>0-1</sub>-RB<sub>B</sub>-aryl where R<sub>B</sub>-aryl is as defined above and R<sub>C-6</sub> is -(CH<sub>2</sub>)<sub>0-6</sub>-OH,

(XXII) -(CH<sub>2</sub>)<sub>0-1</sub>-CHR<sub>B</sub>-6-(CH<sub>2</sub>)<sub>0-1</sub>-R<sub>B</sub>-heteroaryl where R<sub>B</sub>-heteroaryl and R<sub>C-6</sub> is as defined above,

(XXIII) -CH(-R<sub>B</sub>-aryl or R<sub>B</sub>-heteroaryl)-CO-O(C<sub>1</sub>-C<sub>4</sub> alkyl) where R<sub>B</sub>-aryl and R<sub>B</sub>-heteroaryl are as defined above,

(XXIV) -CH(-CH<sub>2</sub>-OH)-CH(-OH)-micro-NO<sub>2</sub>,  
 (XXV) (C<sub>1</sub>-C<sub>6</sub> alkyl)-O-(C<sub>1</sub>-C<sub>6</sub> alkyl)-OH,  
 (XXVII) -CH<sub>2</sub>-NH-CH<sub>2</sub>-CH(-O-CH<sub>2</sub>-CH<sub>3</sub>)<sub>2</sub>,  
 (XXVIII) -H, or

(XXIX)  $-(CH_2)_{0-6}-C(=NR_{1-a})(NR_{1-a}R_{1-b})$  where  $R_{1-a}$  and  $R_{1-b}$  are as defined above;  
 or a pharmaceutically acceptable salt thereof.

5 2. A substituted amine according to claim 1

where  $R_1$  is:

$-(CH_2)_{0-1}-(R_{1-aryl})$ , or  
 $-(CH_2)_{n1}-(R_{1-heteroaryl})$ ;

where  $R_N$  is:

10  $R_{N-1}-X_N-$ , where  $X_N$  is selected from the group consisting of:

$-CO-$ , and  
 $-SO_2-$ ,

where  $R_{N-1}$  is selected from the group consisting of:

$-R_{N-aryl}$ , and  
 $-R_{N-heteroaryl}$ , or

$-CO-CH(-(CH_2)_{0-2}-O-R_{N-10})-(CH_2)_{0-2}-R_{N-aryl}/R_{N-heteroaryl}$ ;

where  $R_A$  is:

$-C_1-C_8$  alkyl,  
 $-(CH_2)_{0-3}-(C_3-C_7)$  cycloalkyl,  
 $-(CR_{A-x}R_{A-y})_{0-4}-R_{A-aryl}$ ,  
 $-(CR_{A-x}R_{A-y})_{0-4}-R_{A-heteroaryl}$ ,  
 $-(CR_{A-x}R_{A-y})_{0-4}-R_{A-heterocycle}$ ,  
 $-cyclopentyl$  or  $-cyclohexyl$  ring fused to  $R_{A-aryl}$  or  $R_{A-heteroaryl}$  or  $R_{A-heterocycle}$ ;

25 where  $X$  is  $-N$  or  $-O$ , with the proviso that when  $X$  is  $O$ ,  $R_B$  is absent;

and when  $X$  is  $N$ ,

$R_B$  is:

$-C_1-C_8$  alkyl,  
 $-(CH_2)_{0-3}-(C_3-C_7)$  cycloalkyl,  
 $-(CR_{A-x}R_{A-y})_{0-4}-R_{A-aryl}$ ,  
 $-(CR_{A-x}R_{A-y})_{0-4}-R_{A-heteroaryl}$ ,  
 $-(CR_{A-x}R_{A-y})_{0-4}-R_{A-heterocycle}$ ,  
 $-cyclopentyl$  or  $-cyclohexyl$  ring fused to  $R_{A-aryl}$  or  $R_{A-heteroaryl}$  or  $R_{A-heterocycle}$ .